

FIG. 1

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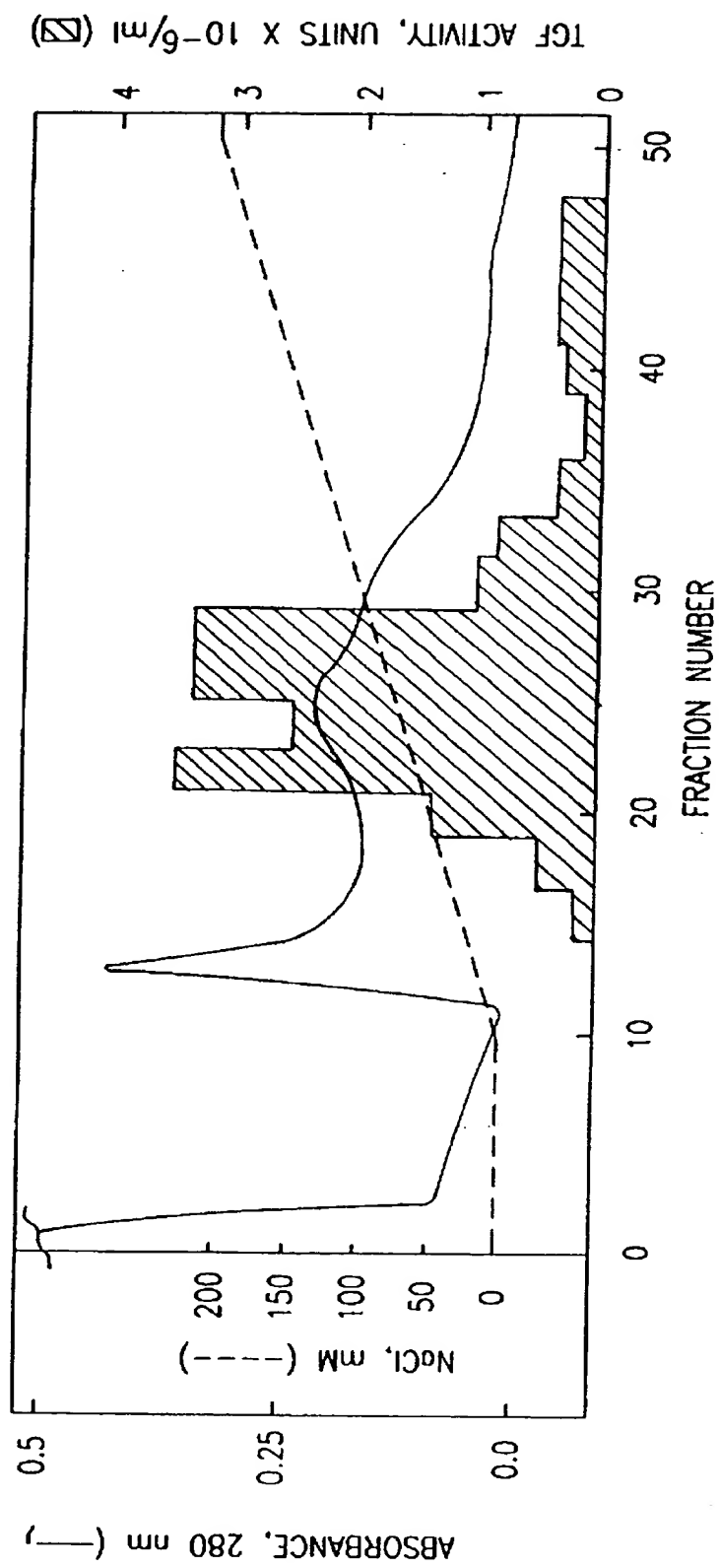
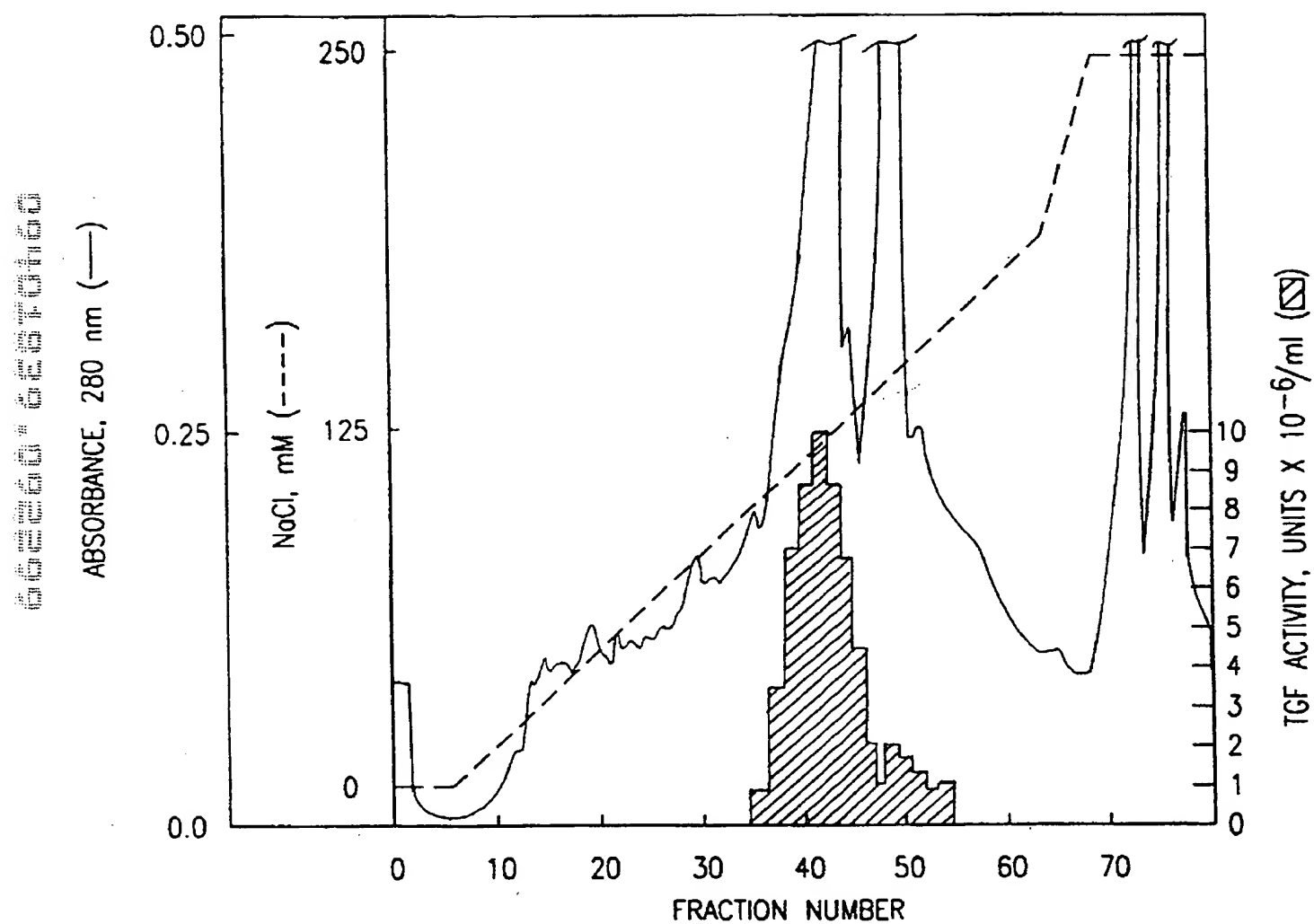


FIG. 2

**FIG. 3**

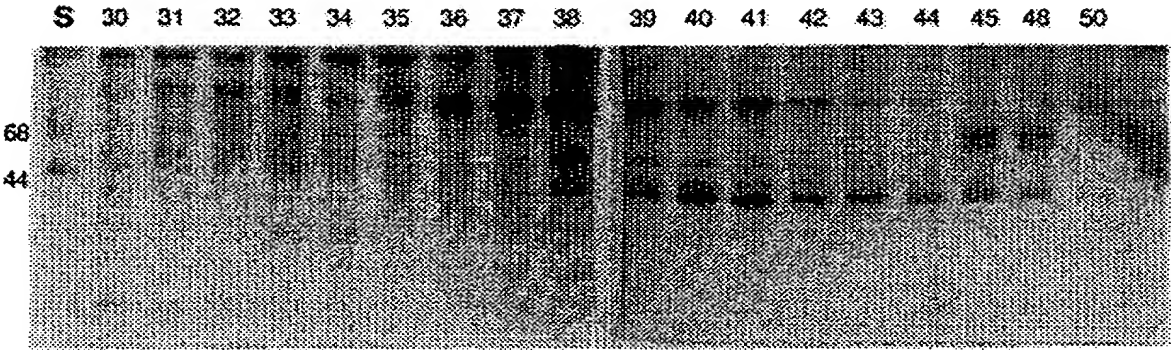
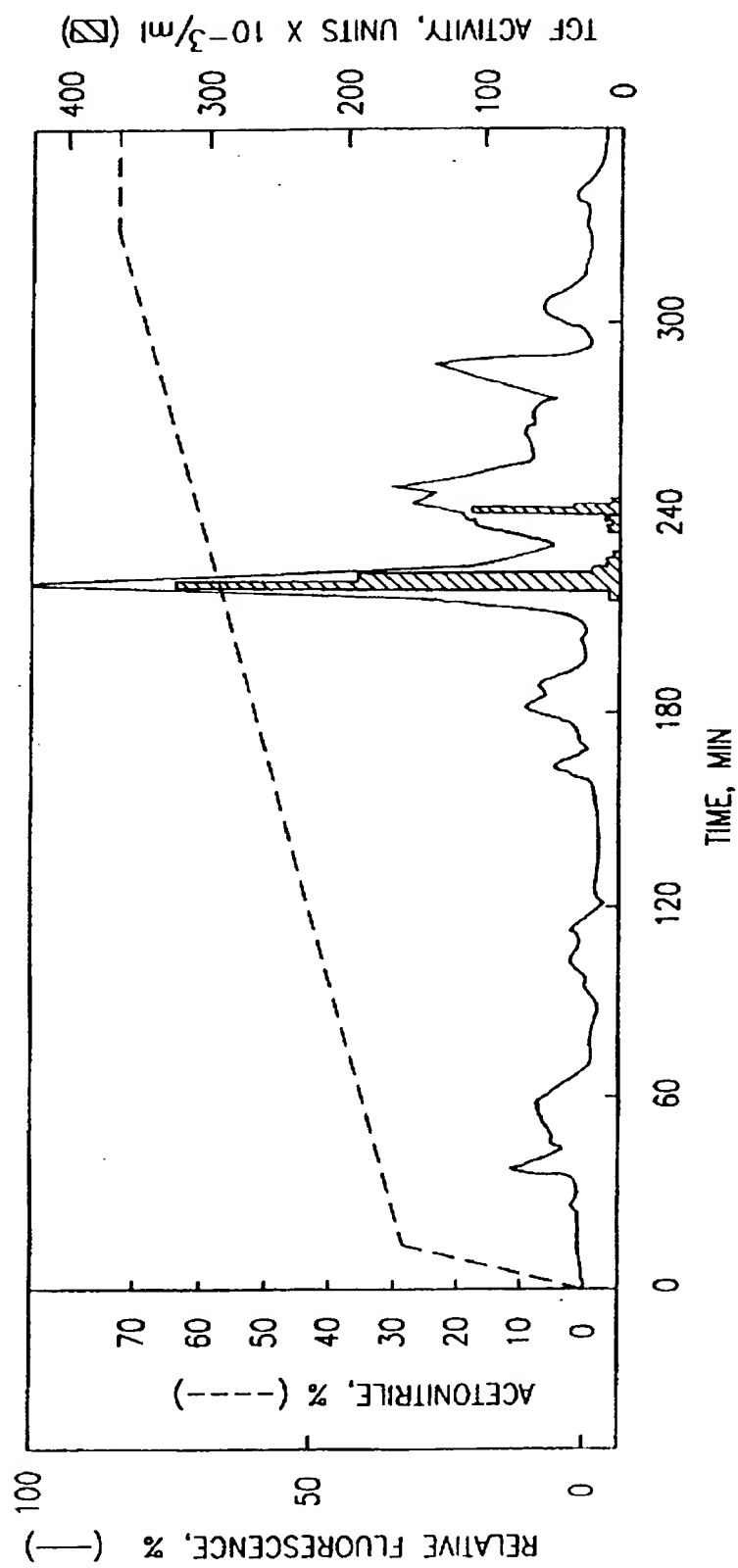


FIG. 4

**FIG. 5**

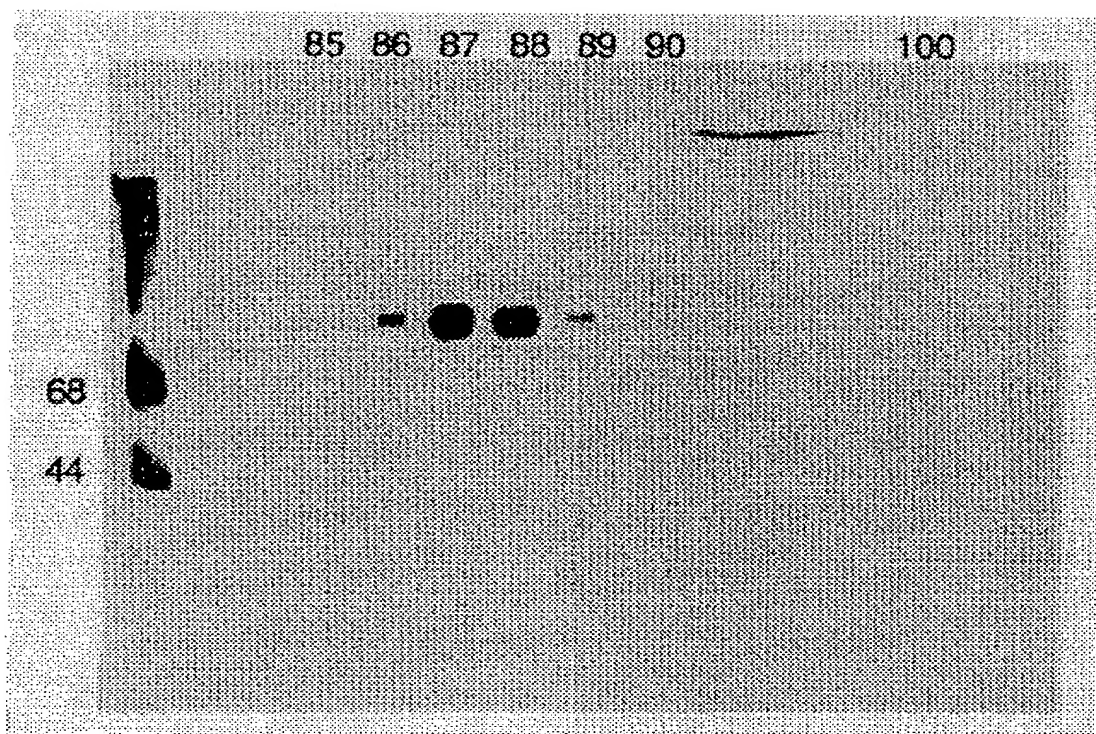
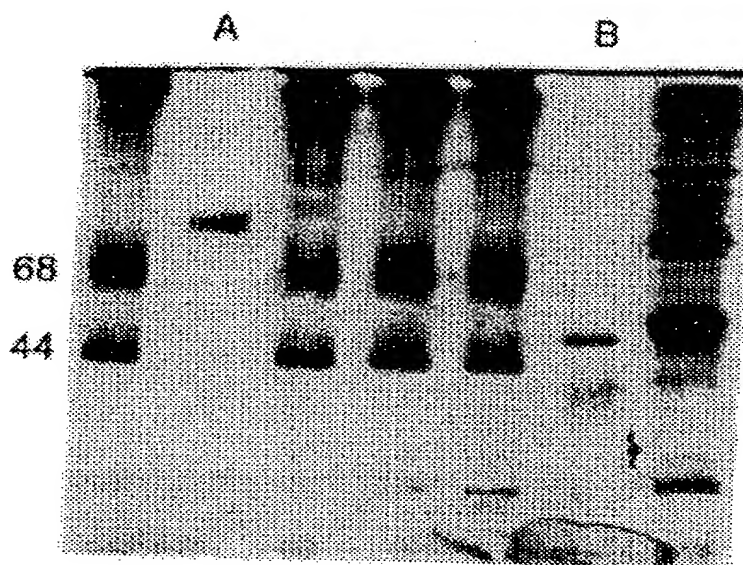
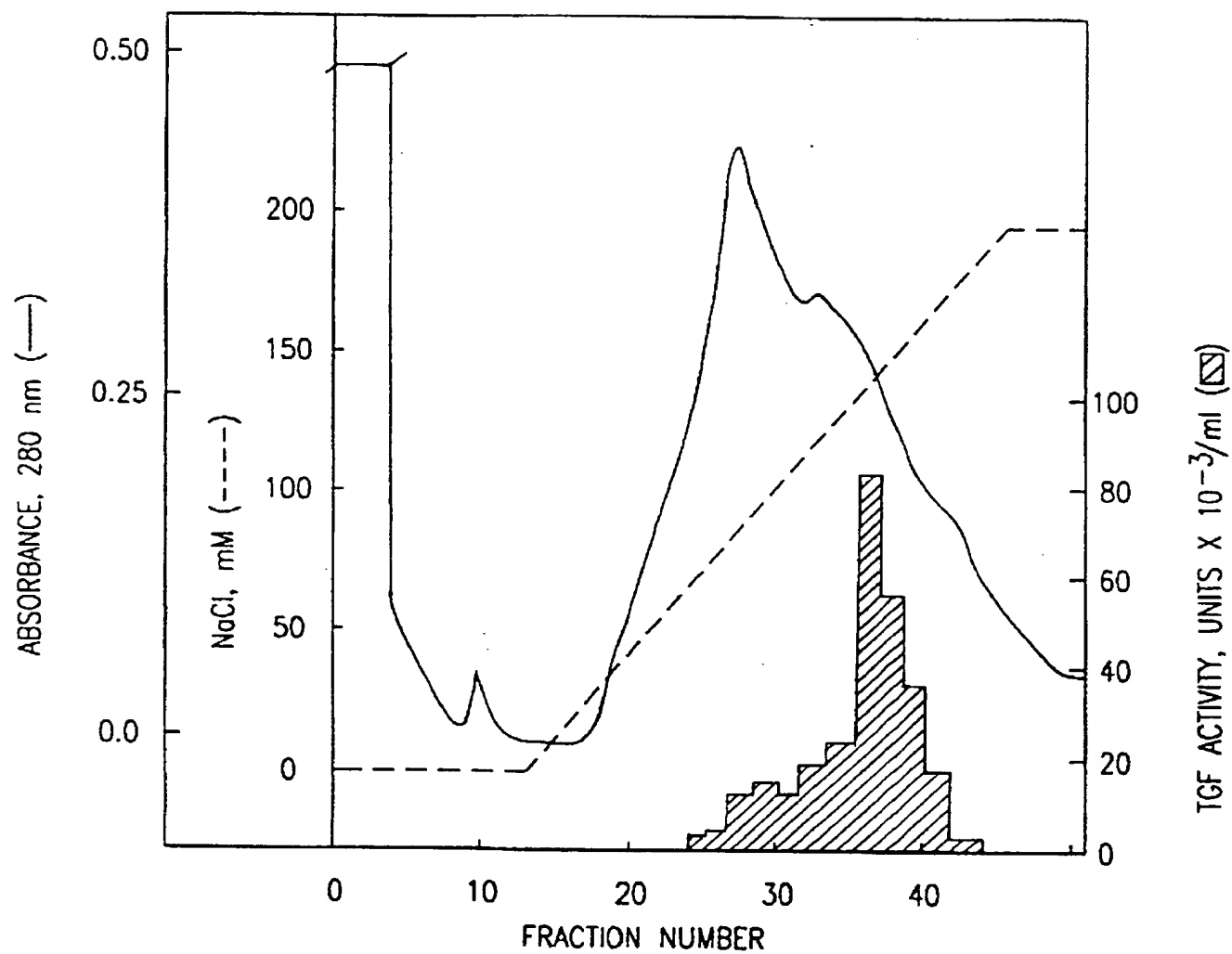


FIG. 6

**FIG. 7**

**FIG. 8**



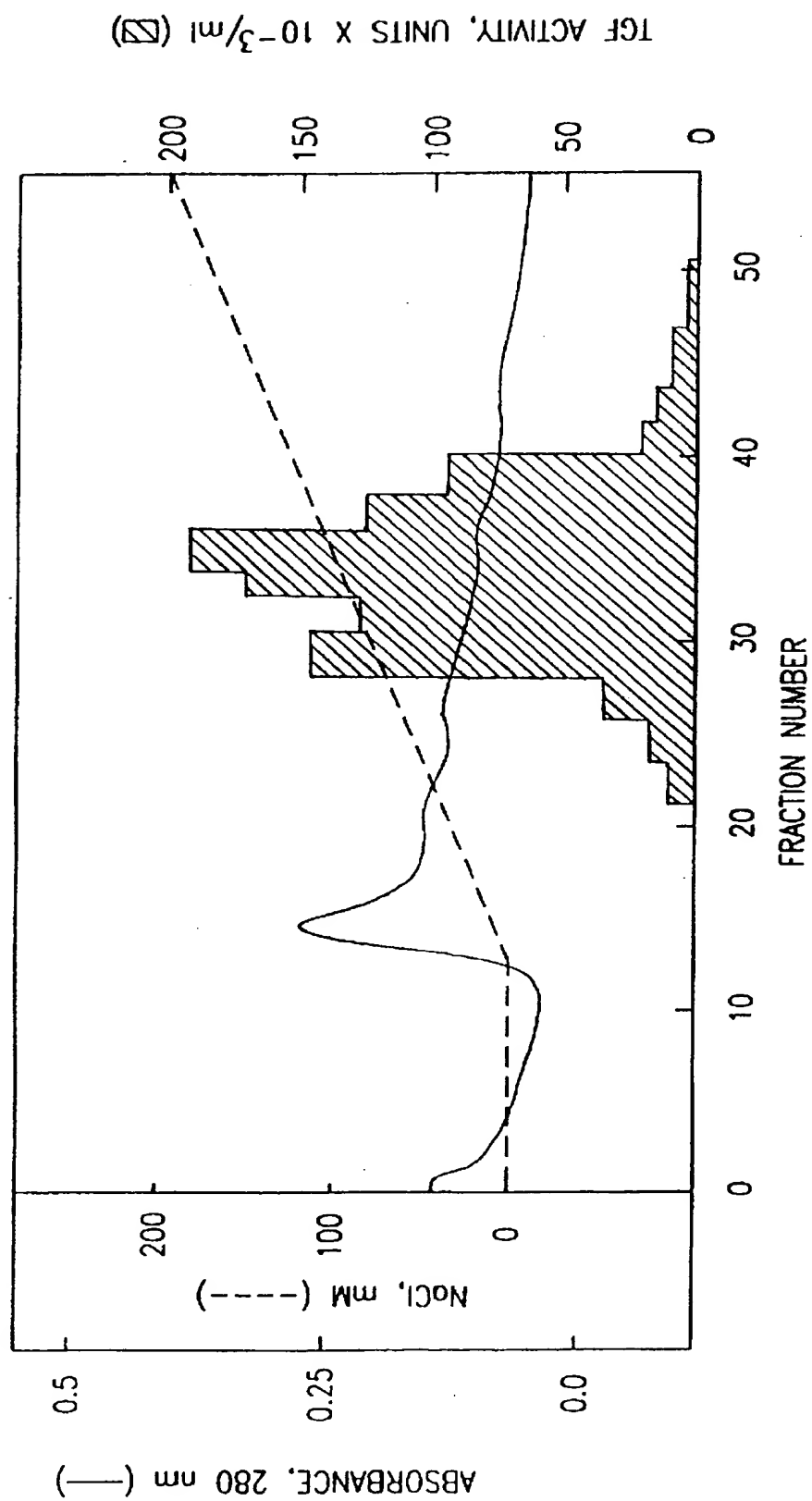


FIG. 9

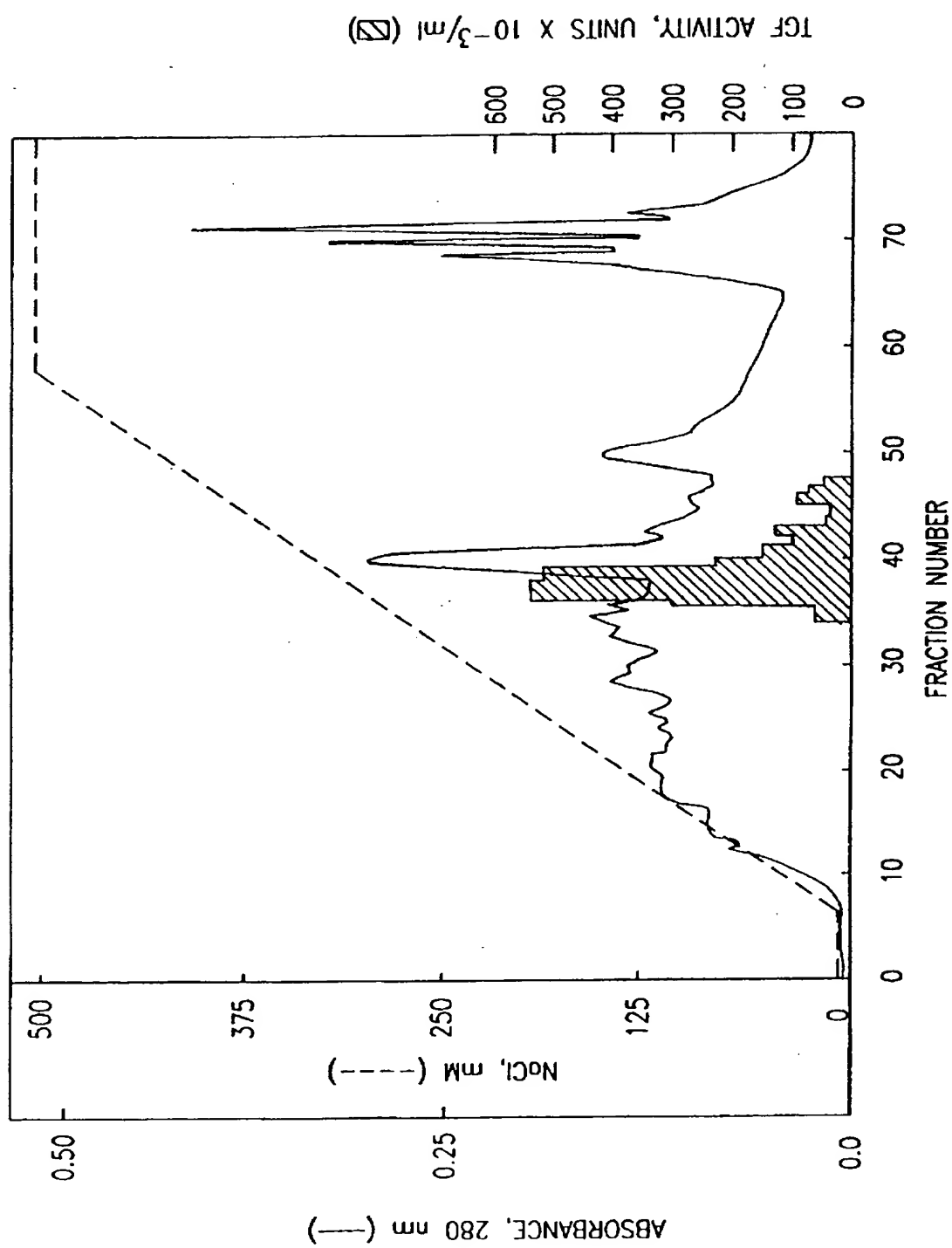


FIG. 10

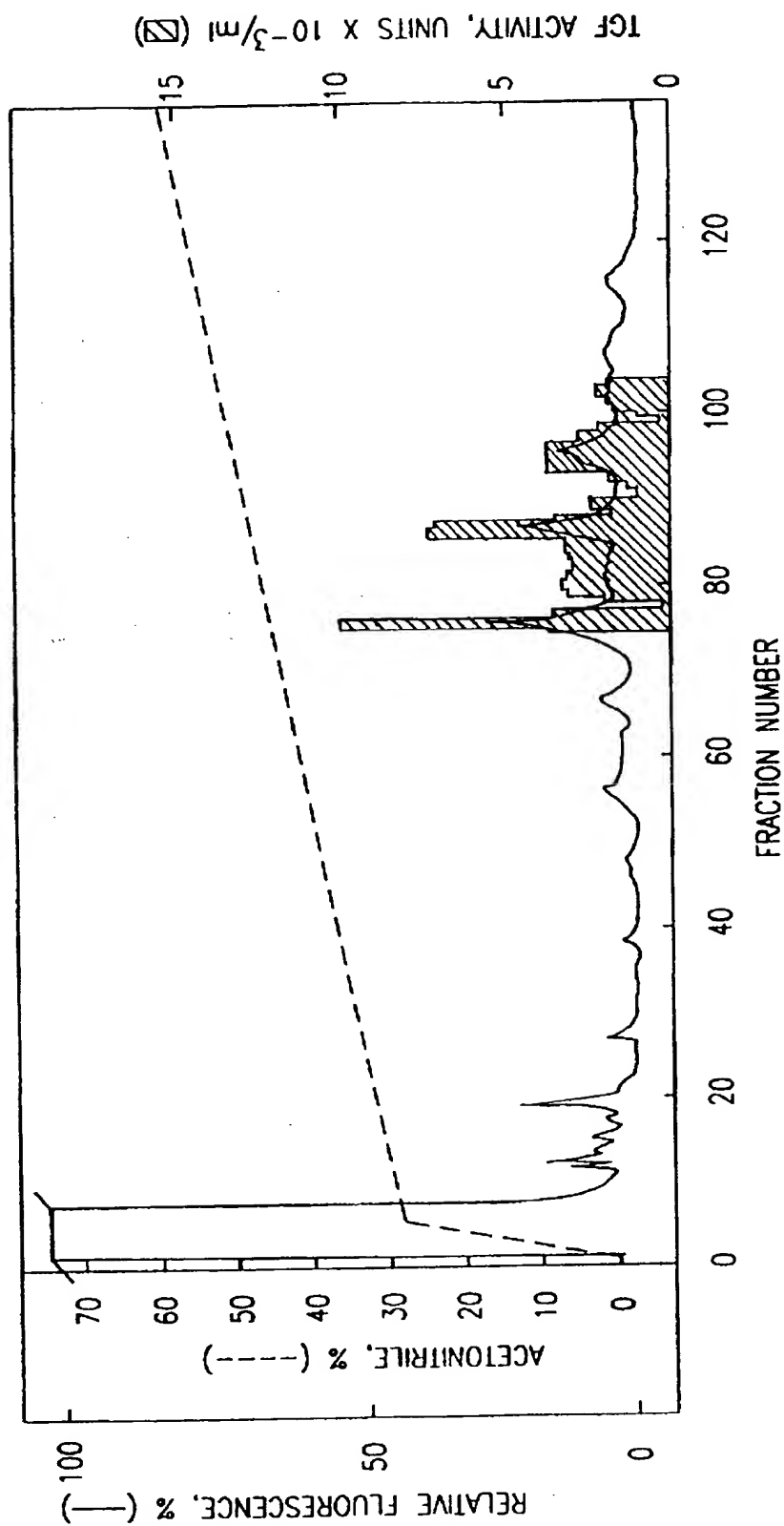


FIG. 11

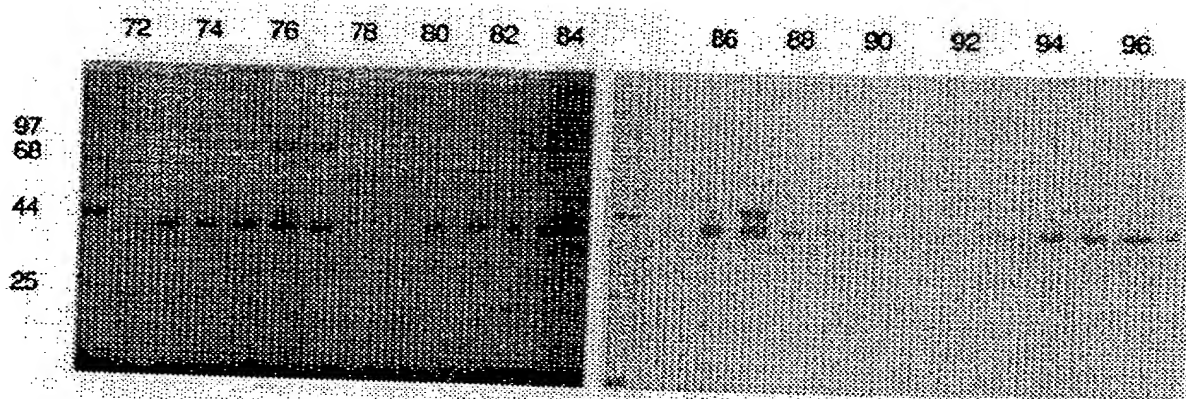


FIG. 12

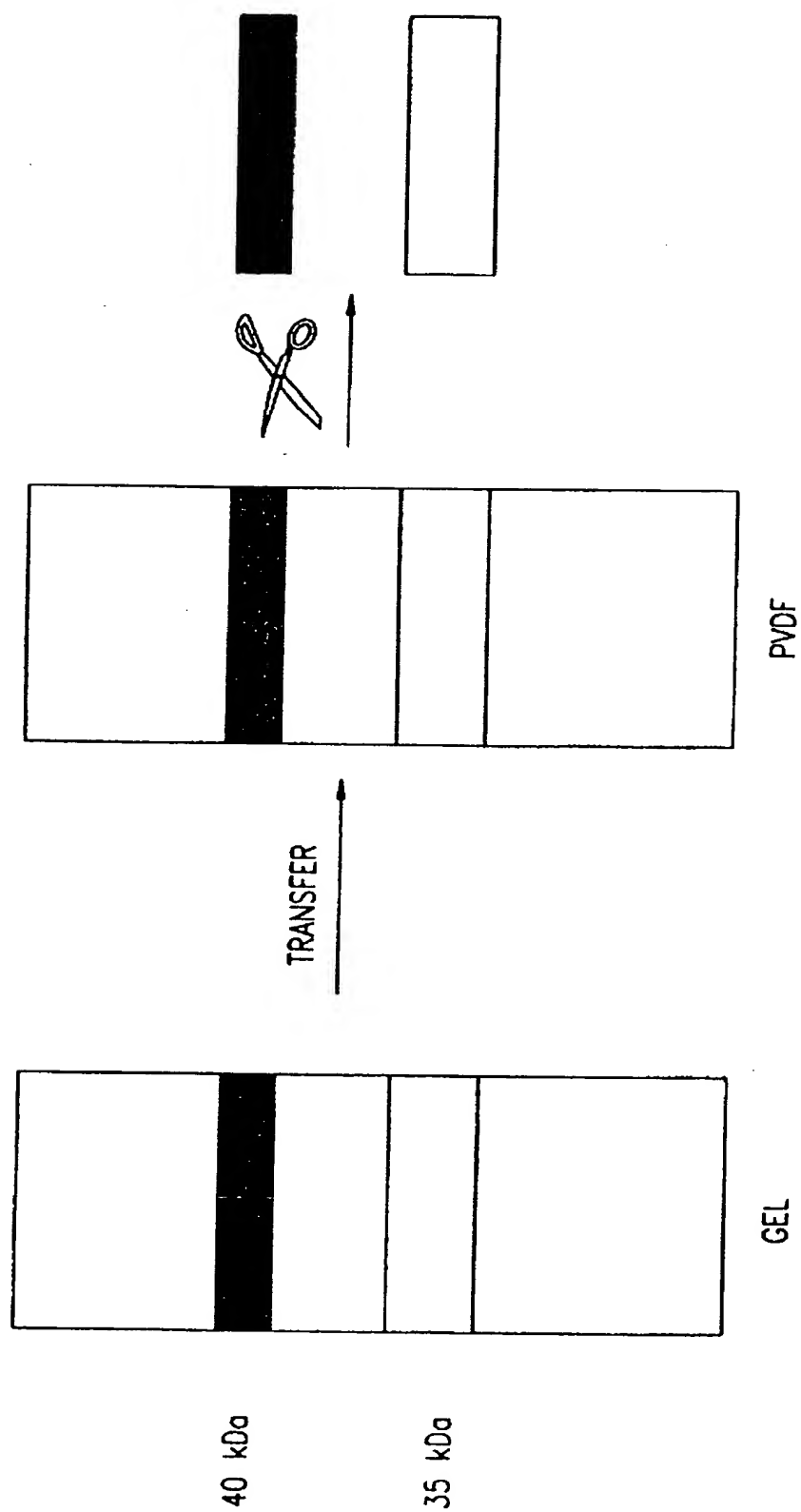
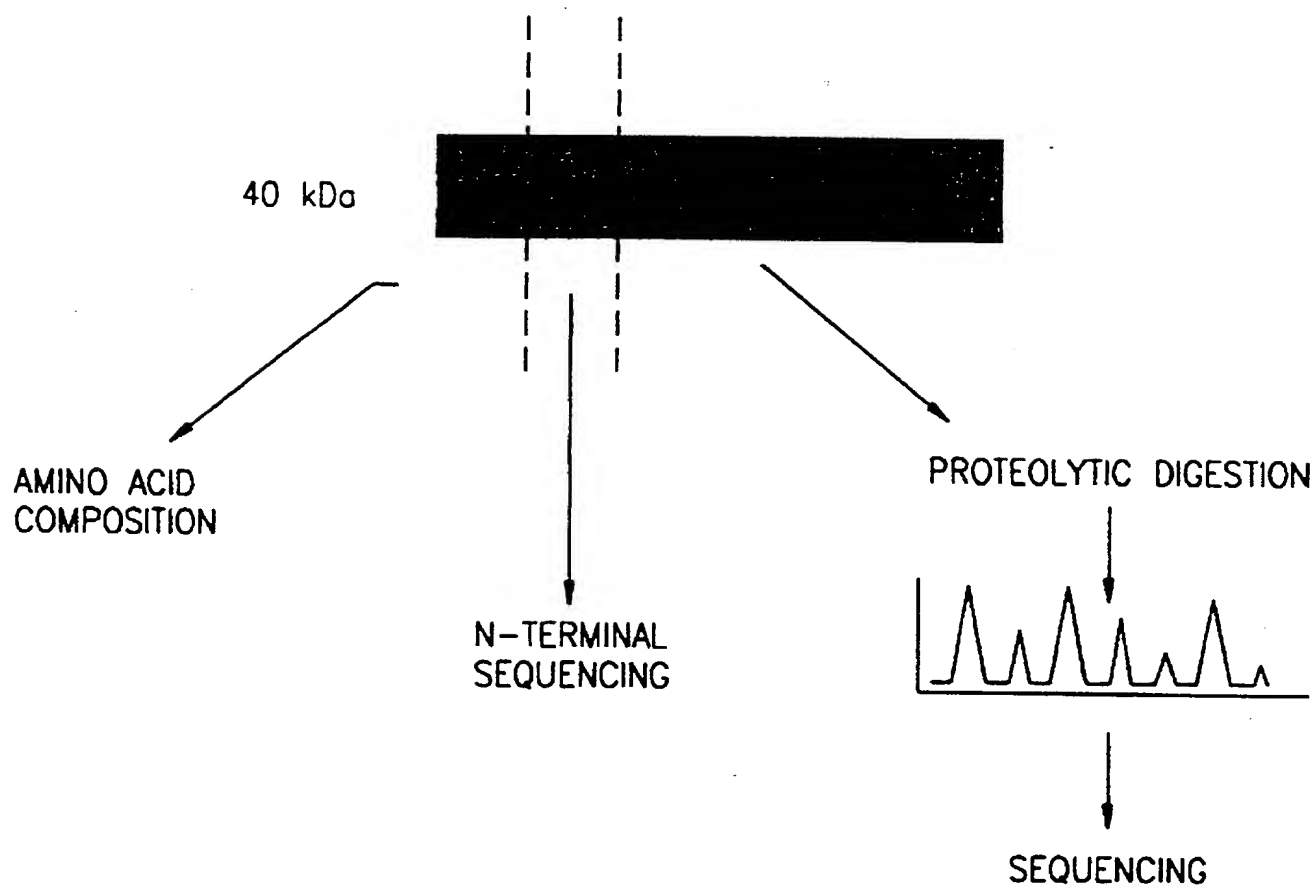


FIG. 13

**FIG. 14**

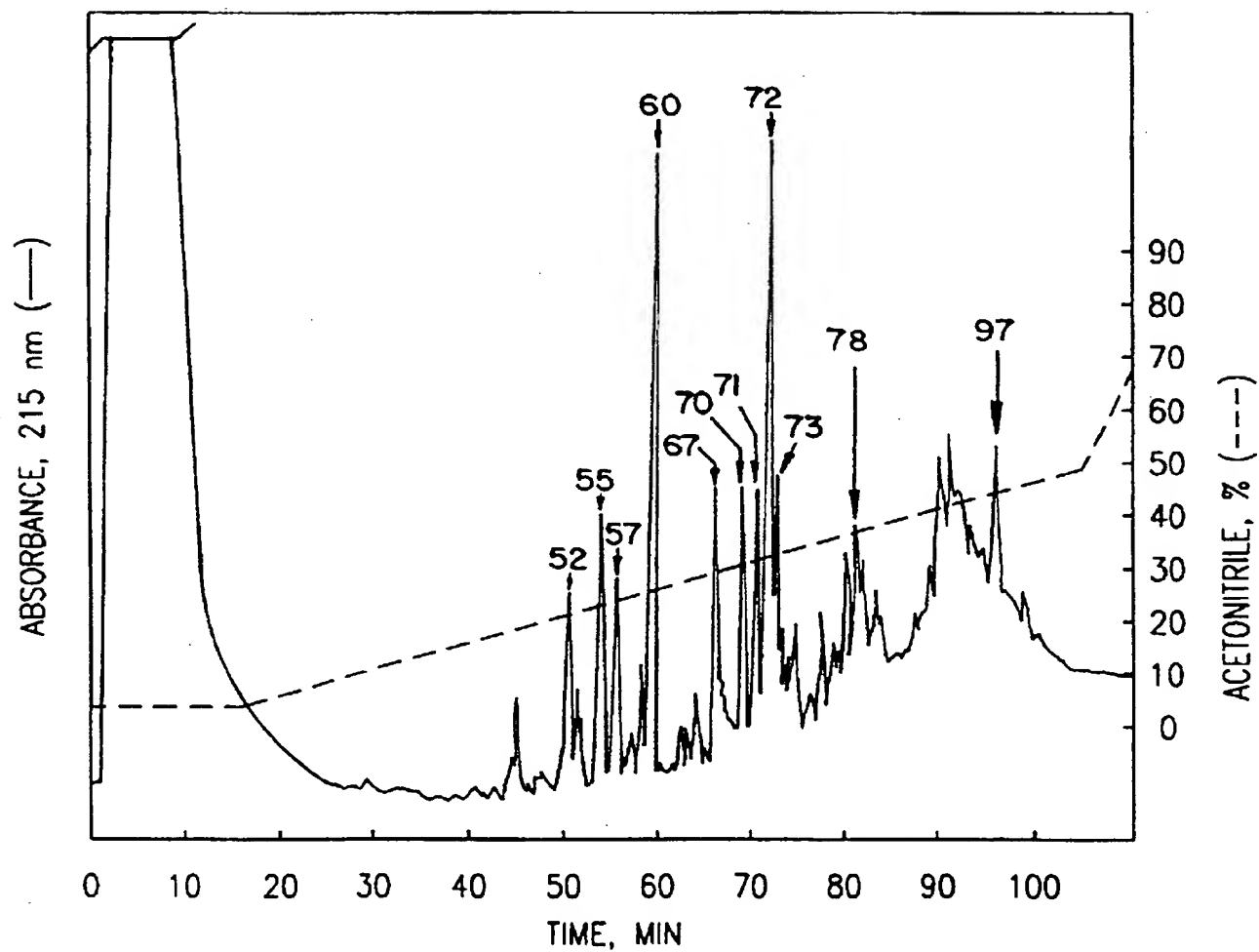


FIG. 15

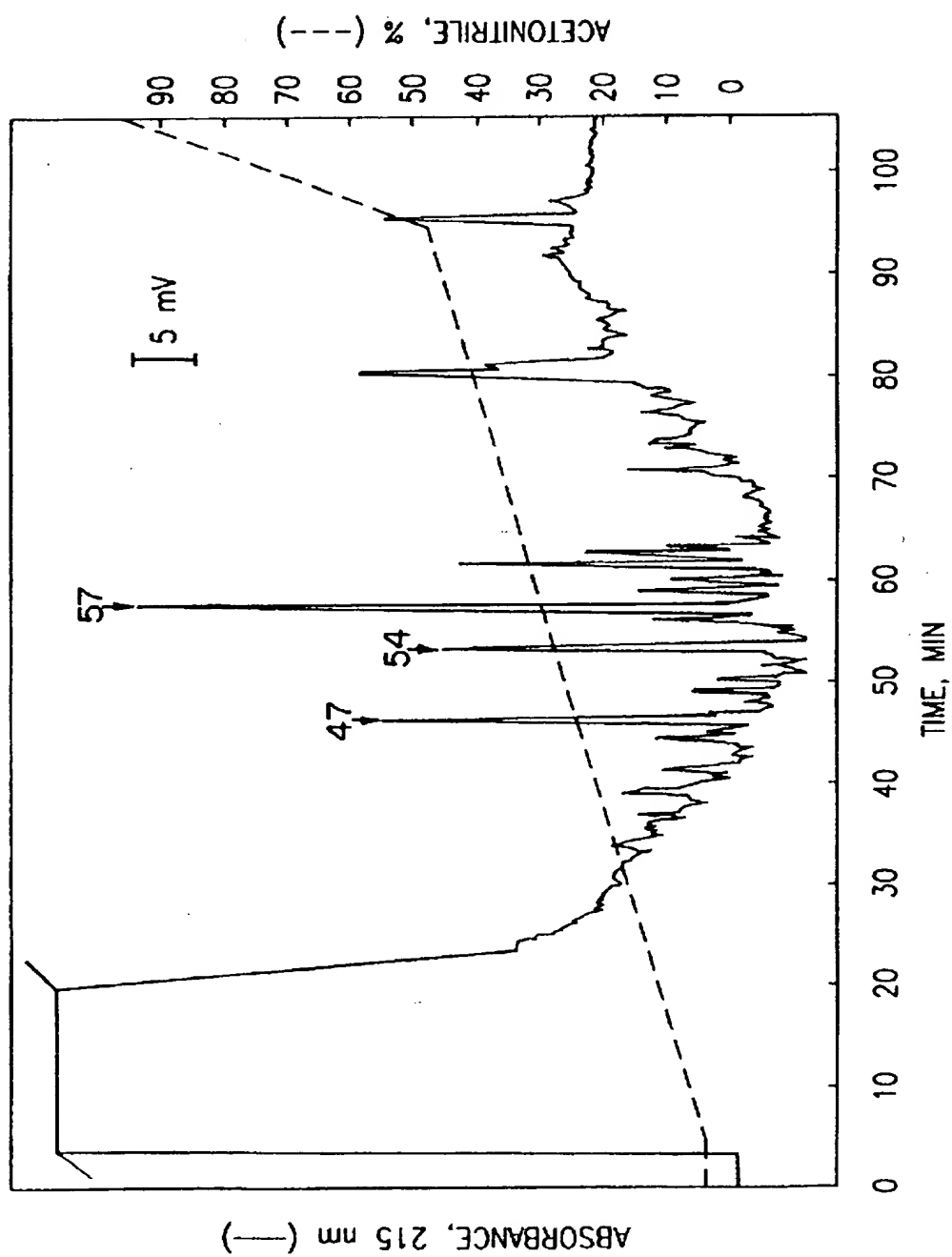
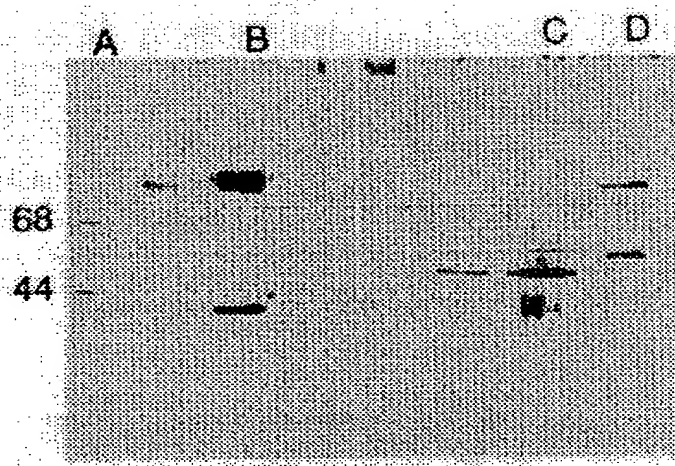


FIG. 16



**FIG. 17**

**FIG. 18**

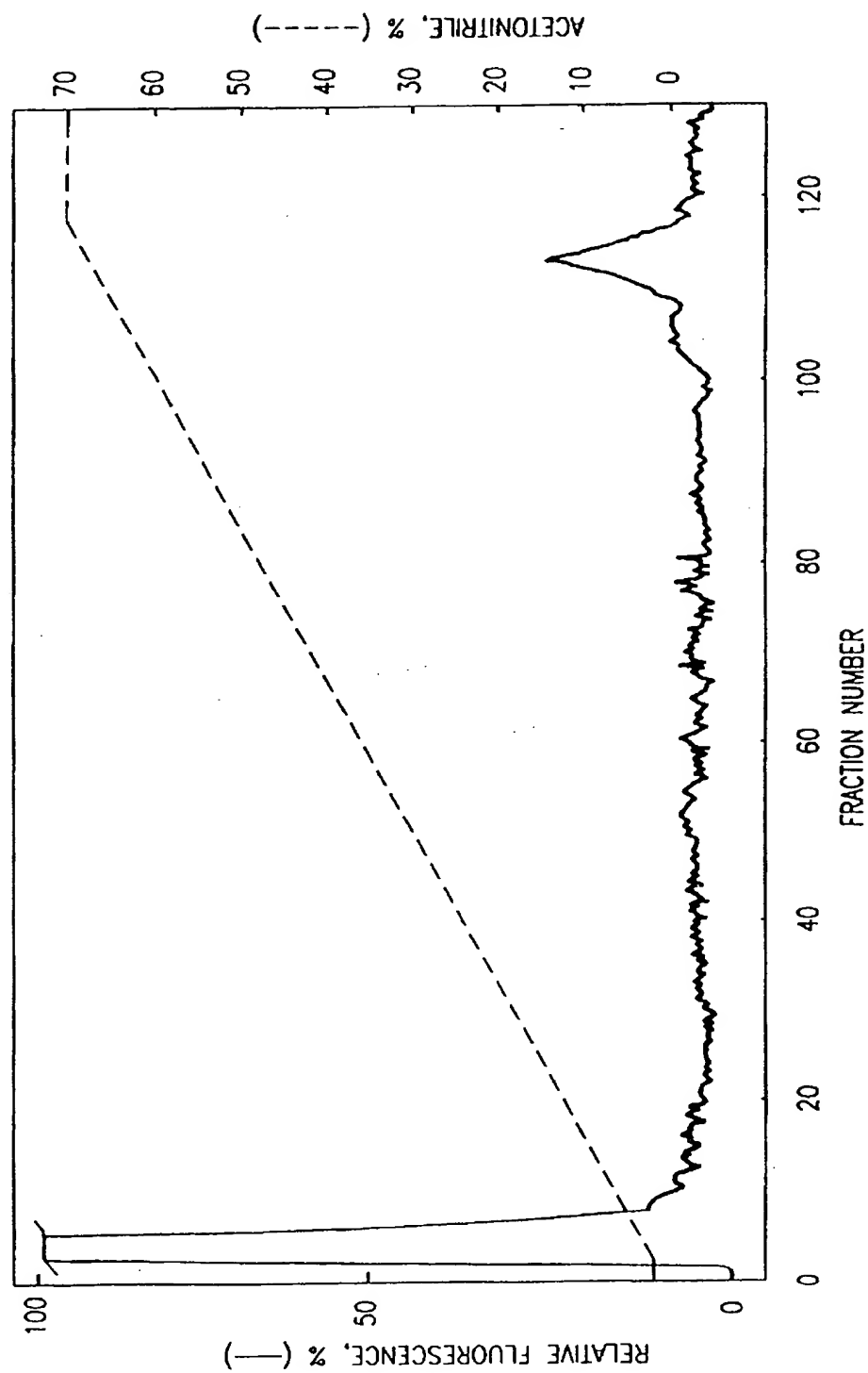


FIG. 19

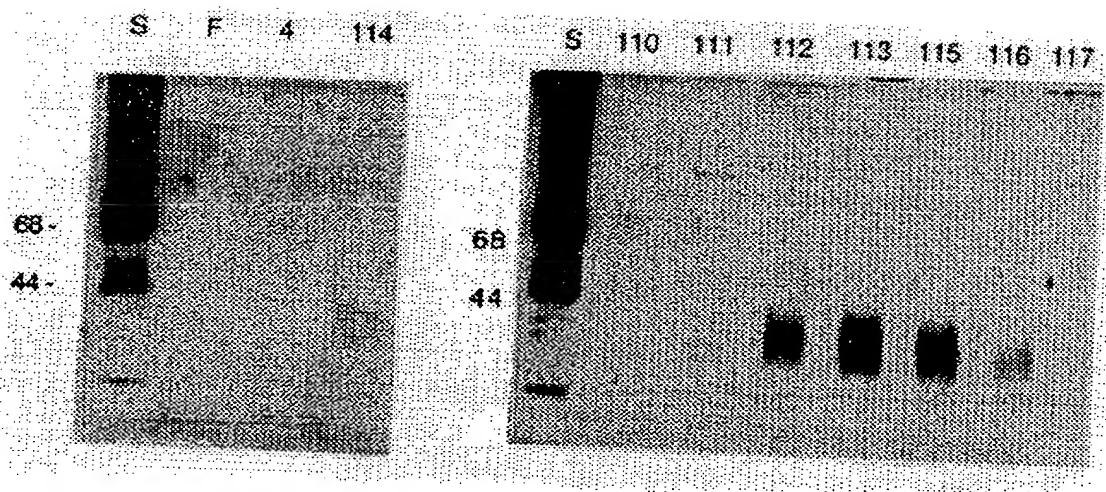


FIG. 20

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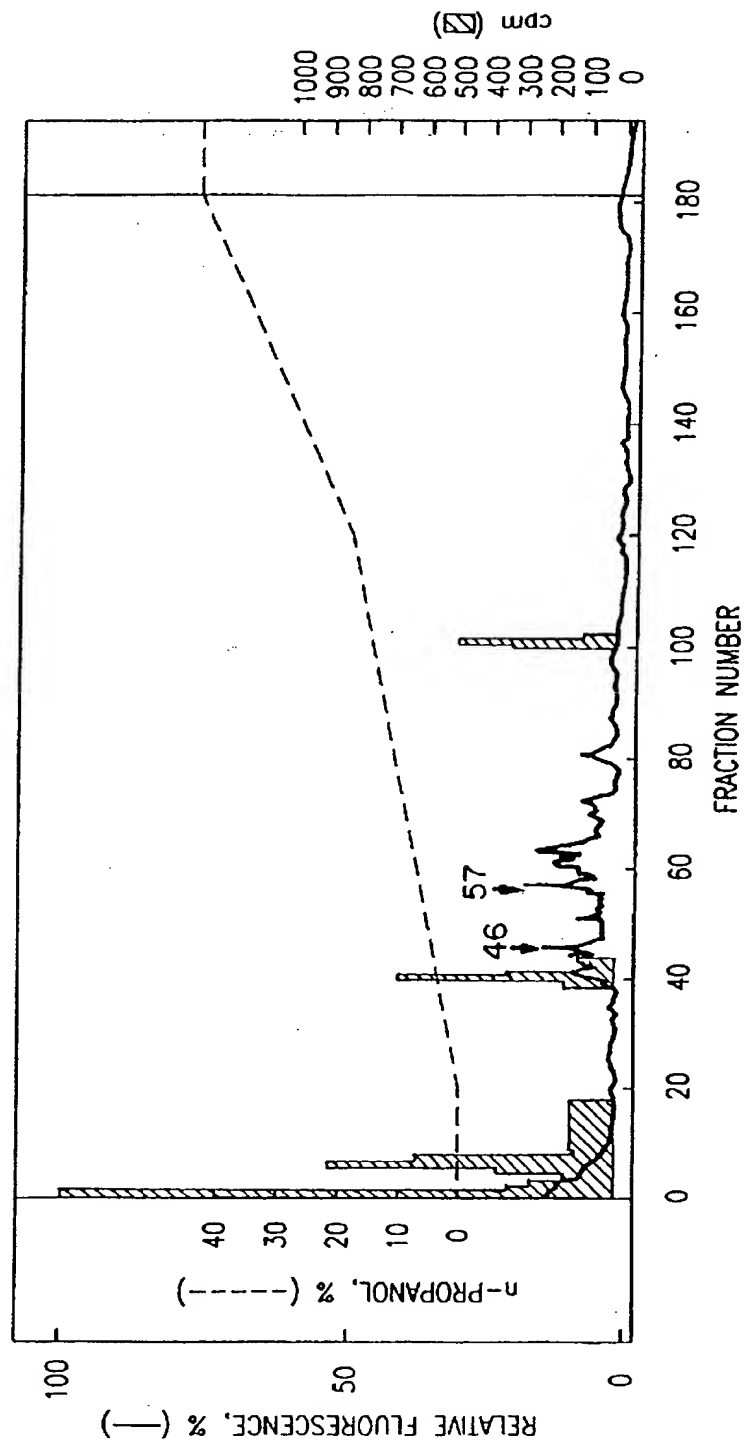


FIG. 21

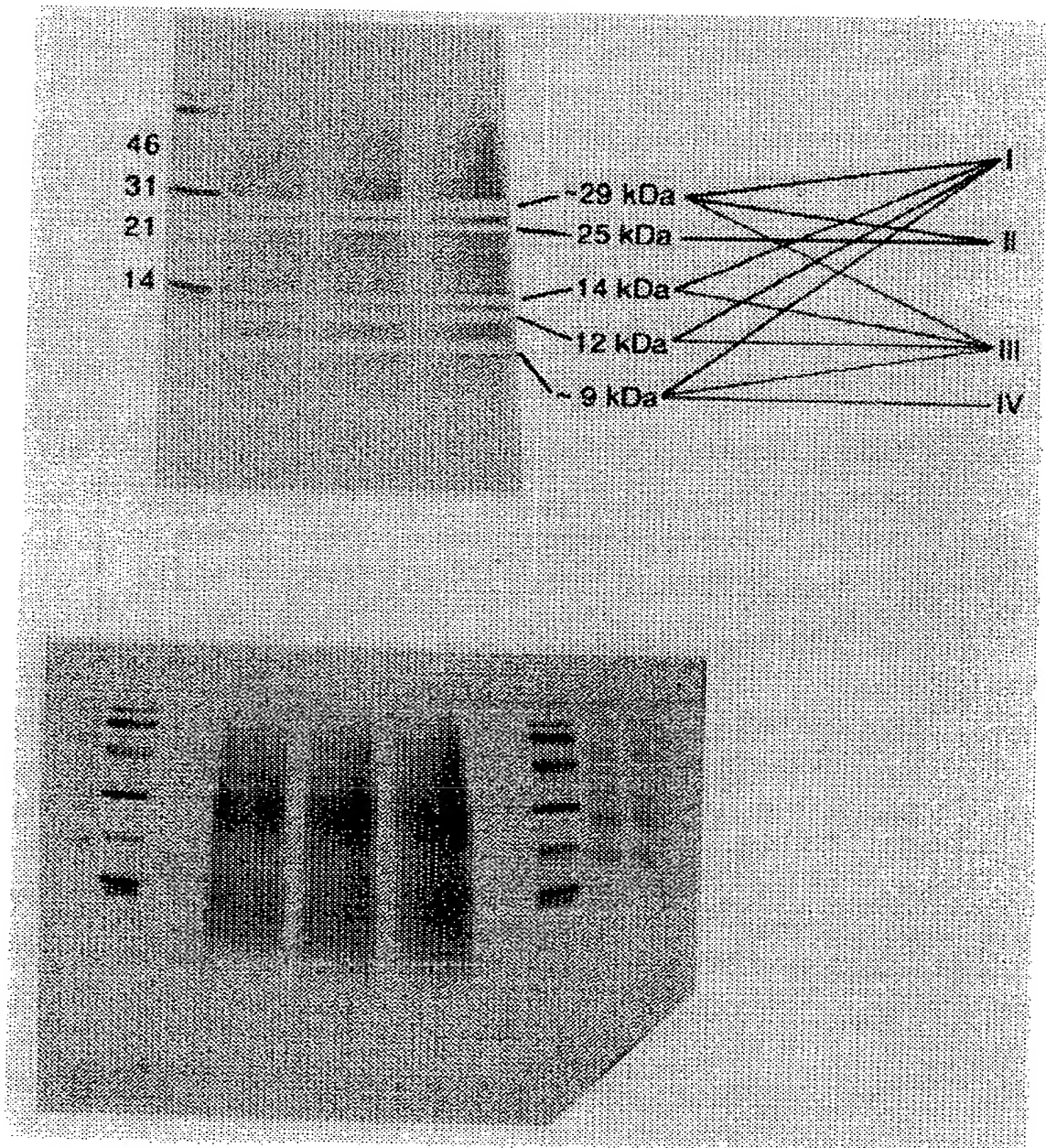


FIG. 22

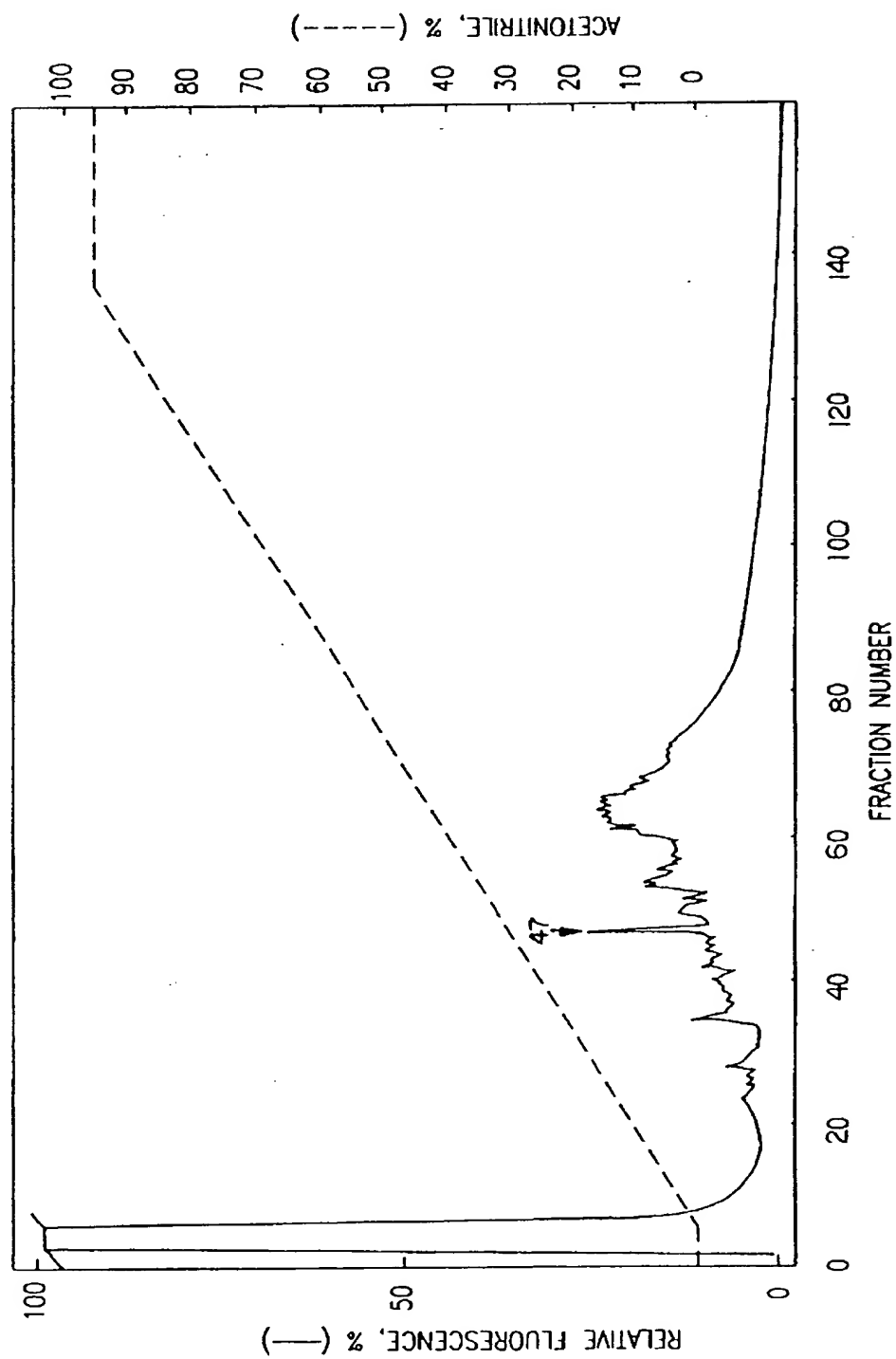
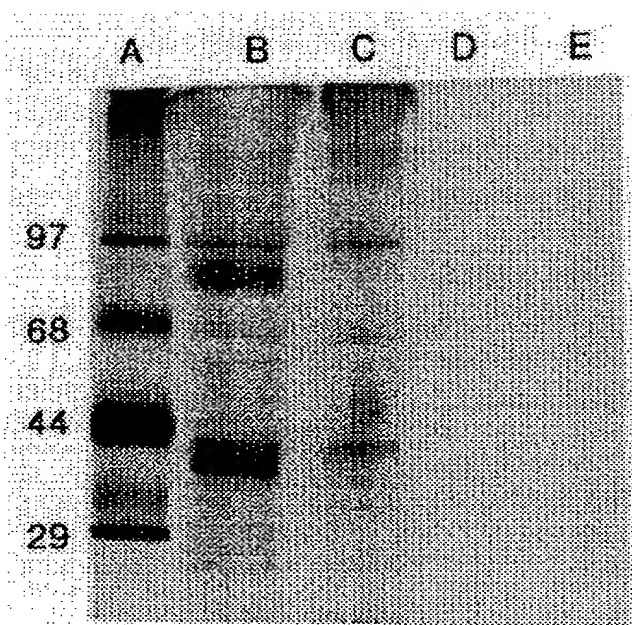


FIG. 23

**FIG. 24**



10			20			30			40			49			58		
GTTTCAGGGC			CATTTGACTC			TCCGTCCTGC			CCAGAGCAAG			> ATG			TTG		
												TGT			GTC		
												CAC			Leu		
												Cys			Val		
67			76			85			94			103			112		
ATC	TCT	TGG	TTT	TCC	CTG	GTT	TTT	CTG	GCA	TCT	CCC	CTC	GTG	GCC	ATA	TGG	GAA
Ile	Ser	Trp	Phe	Ser	Leu	Val	Phe	Leu	Ala	Ser	Pro	Leu	Val	Ala	Ile	Trp	Glu
121			130			139			148			157			166		
CTG	AAG	AAA	GAT	GTT	TAT	GTC	GTA	GAA	TTG	GAT	TGG	TAT	CCG	GAT	GCC	CCT	GGA
Leu	Lys	Lys	Asp	Val	Tyr	Val	Val	Glu	Leu	Asp	Trp	Tyr	Pro	Asp	Ala	Pro	Gly
175			184			193			202			211			220		
GAA	ATG	GTG	GTC	CTC	ACC	TGT	GAC	ACC	CCT	GAA	GAA	GAT	GGT	ATC	ACC	TGG	ACC
Glu	MET	Val	Val	Leu	Thr	Cys	Asp	Thr	Pro	Glu	Glu	Asp	Gly	Ile	Thr	Trp	Thr
229			238			247			256			265			274		
TTG	GAC	CAG	AGC	AGT	GAG	GTC	TTA	GGC	TCT	GGC	AAA	ACC	CTG	ACC	ATC	CAA	GTC
Leu	Asp	Gln	Ser	Ser	Glu	Val	Leu	Gly	Ser	Gly	Lys	Thr	Leu	Thr	Ile	Gln	Val
283			292			301			310			319			328		
AAA	GAG	TTT	GGA	GAT	GCT	GGC	CAG	TAC	ACC	TGT	CAC	AAA	GGA	GGC	GAG	GTT	CTA
Lys	Glu	Phe	Gly	Asp	Ala	Gly	Gln	Tyr	Thr	Cys	His	Lys	Gly	Gly	Glu	Val	Leu

FIG. 25a

337	346	355	364	373	382
AGC CAT TCG CTC CTG CTG CTT CAC AAA AAG GAA GAT GGA ATT TGG TCC ACT GAT	Ser His Ser Leu Leu Leu Leu Leu His Lys Lys Glu Asp Gly Ile Trp Ser Thr Asp				
391	400	409	418	427	436
ATT TTA AAG GAC CAG AAA GAA CCC AAA AAT AAG ACC TTT CTA AGA TGC GAG GCC	Ile Leu Lys Asp Gln Lys Lys Glu Pro Lys Asn Lys Thr Phe Leu Arg Cys Glu Ala				
445	454	463	472	481	490
AAG AAT TAT TCT GGA CGT TTC ACC TGC TGG TGG CTG ACG ACA ATC AGT ACT GAT	Lys Asn Tyr Ser Gly Arg Phe Thr Cys Trp Tip Trp Leu Thr Thr Ile Ser Thr Asp				
499	508	517	526	535	544
TTG ACA TTC AGT GTC AAA AGC AGC AGA GGC TCT TCT GAC CCC CAA GGG GTG ACG	Leu Thr Phe Ser Ser Val Lys Ser Ser Arg Gly Ser Ser Ser Asp Pro Gln Gly Val Thr				
553	562	571	580	589	598
TGC GGA GCT GCT ACA CTC TCT TCT GCA GAG AGA GTC AGA GGG GAC AAC AAG GAG TAT	Cys Gly Ala Ala Thr Leu Ser Ala Glu Arg Val Arg Gly Asp Asn Lys Glu Tyr				
607	616	625	634	643	652
GAG TAC TCA GTG GAG TGC CAG GAG GAC AGT GCC TGC CCA GCT GCT GAG GAG AGT	Glu Tyr Ser Val Glu Cys Gln Glu Asp Ser Ala Cys Pro Ala Ala Glu Glu Ser				

FIG. 25b

661	670	679	688	697	706													
<u>CTG</u> <u>CCC</u> <u>ATT</u> <u>GAG</u> <u>GTC</u> <u>ATG</u> <u>GTG</u> <u>GAT</u> <u>GCC</u> <u>GTT</u> <u>CAC</u> <u>AAG</u> <u>CTC</u> <u>AAG</u> <u>TAT</u> <u>GAA</u> <u>AAC</u> <u>TAC</u>	Leu	Pro	Ile	Glu	Val	MET	Val	Ala	Val	His	Lys	Leu	Lys	Tyr	Glu	Asn	Tyr	
715	724	733	742	751	760													
<u>ACC</u> <u>AGC</u> <u>AGC</u> <u>TTC</u> <u>TTC</u> <u>ATC</u> <u>AGG</u> <u>GAC</u> <u>ATC</u> <u>ATC</u> <u>AAA</u> <u>CCT</u> <u>GAC</u> <u>CCA</u> <u>CCC</u> <u>AAG</u> <u>AAC</u> <u>TTG</u>	Thr	Ser	Ser	Phe	Phe	Ile	Arg	Asp	Ile	Lys	Pro	Asp	Pro	Pro	Lys	Asn	Leu	
769	778	787	796	805	814													
<u>CAG</u> <u>CTG</u> <u>AAG</u> <u>CCA</u> <u>TTA</u> <u>AAG</u> <u>AAT</u> <u>TCT</u> <u>CGG</u> <u>CAG</u> <u>GTG</u> <u>GAG</u> <u>GTC</u> <u>AGC</u> <u>TGG</u> <u>GAG</u> <u>TAC</u> <u>CCT</u>	Gln	Leu	Lys	Pro	Leu	Lys	Asn	Ser	Arg	Gln	Val	Glu	Val	Ser	Trp	Glu	Tyr	Pro
823	832	841	850	859	868													
<u>GAC</u> <u>ACC</u> <u>TGG</u> <u>AGT</u> <u>ACT</u> <u>CCA</u> <u>CAT</u> <u>TCC</u> <u>TAC</u> <u>TTC</u> <u>TCC</u> <u>CTG</u> <u>ACA</u> <u>TTC</u> <u>TGC</u> <u>GTT</u> <u>CAG</u> <u>GTC</u>	Asp	Thr	Trp	Ser	Thr	Pro	His	Ser	Tyr	Phe	Ser	Leu	Thr	Phe	Cys	Val	Gln	Val
877	886	895	904	913	922													
<u>CAG</u> <u>GGC</u> <u>AAG</u> <u>AGC</u> <u>AAG</u> <u>AGA</u> <u>GAA</u> <u>AAG</u> <u>AAA</u> <u>GAT</u> <u>AGA</u> <u>GTC</u> <u>TTC</u> <u>ACG</u> <u>GAC</u> <u>AAG</u> <u>ACC</u> <u>TCA</u>	Gln	Gly	Lys	Ser	Lys	Arg	Glu	Lys	Lys	Asp	Arg	Val	Phe	Thr	Asp	Lys	Thr	Ser
931	940	949	958	967	976													
<u>GCC</u> <u>ACG</u> <u>GTC</u> <u>ATC</u> <u>TGC</u> <u>CGC</u> <u>AAA</u> <u>AAT</u> <u>GCC</u> <u>AGC</u> <u>ATT</u> <u>AGC</u> <u>GTG</u> <u>CGG</u> <u>GCC</u> <u>CAG</u> <u>GAC</u> <u>CGC</u>	Ala	Thr	Val	Ile	Cys	Arg	Lys	Asn	Ala	Ser	Ile	Ser	Val	Arg	Ala	Gln	Asp	Arg

FIG. 25c

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985	994	1003	1012	1021	1034
<p> <u>TAC TAT AGC TCA TCT TGG AGC GAA TGG GCA TCT GTG CCC TGC AGT TAGGTTCTGA</u>  Tyr Tyr Ser Ser Ser Trp Ser Glu Trp Ala Ser Val Pro Cys Ser </p>					
1044	1054	1064	1074	1084	1094
1104					
<p> TCCAGGATGA AAATTGGAG GAAAAGTGGG AGATATTAAG CAAATGTTT AAAGACACAA CGGAATAGAC </p>					
1114	1124	1134	1144	1154	1164
1174					
<p> CCAAAAAGAT AATTCTATC TGATTGCTT TAAAACGTTT TTTTAGGATC ACAATGATAT CTTTGCTGTA </p>					
1184	1194	1204	1214	1224	1234
1244					
<p> TTTGTATAGT TAGATGCTAA ATGCATCATG AAACAATCAG CTAATTATG TATAGATTTT CCAGCTCTCA </p>					
1254	1264	1274	1284	1294	1304
1314					
<p> AGTTGCCATG GGCCTTCATG CTATTAAAT ATTAAAGTAA TTTATGTATT TATTAGTATA TTACTGTTAT </p>					
1324	1334	1344	1354	1364	1374
1384					
<p> TTAACGTTG TCTGCCAGGA TGTATGGAAT GTTTCATACT CTTATGACCT GATCCATCAG GATCAGTCCC TATTATGCAA AAT </p>					

FIG. 25d

10            20            30            40            50            60            70  
 GAATTCCCAG AAAGCAAGAG ACCAGAGTCC CGGGAAAGTC CTGCCGCGCC TCGGGACAAT TATAAAAATG  
 80            90            100            110            120            130            140  
 TGGCCCCCTG GGTCAGCCTC CCAGCCACCG CCCTCACCTG CCGCGGCCAC AGGTCTGCAT CCAGCGGCTC  
 150            160            169            178            187            196  
 GCCCTGTGTC CCTGCAGTGC CGGCTCAGC > ATG TGT CCA GCG CGC AGC CTC CTC CTT GTG  
 MET Cys Pro Ala Arg Ser Leu Leu Leu Val  
 205            214            223            232            241            250  
 GCT ACC CTG GTC CTC CTG GAC CAC CTC AGT TTG GCC AGA AAC CTC CCC GTG GCC  
 Ala Thr Leu Val Leu Leu Asp His Leu Ser Leu Ala Arg Asn Leu Pro Val Ala  
 259            268            277            286            295            304  
 ACT CCA GAC CCA GGA ATG TTC CCA TGC CTT CAC CAC TCC CAA AAC CTG CTG AGG  
 Thr Pro Asp Pro Gly MET Phe Pro Cys Leu His His Ser Gln Asn Leu Leu Arg  
 313            322            331            340            349            358  
 GCC GTC AGC AAC ATG CTC CAG AAG GCC AGA CAA ACT CTA GAA TTT TAC CCT TGC  
 Ala Val Ser Asn MET Leu Gln Lys Ala Arg Gln Thr Leu Glu Phe Tyr Pro Cys  
 367            376            385            394            403            412  
 ACT TCT GAA GAG ATT GAT CAT GAA GAT ATC ACA AAA GAT AAA ACC AGC ACA GTG  
 Thr Ser Glu Glu Ile Asp His Glu Asp Ile Thr Lys Asp Lys Thr Ser Thr Val

FIG. 26a

421	430	439	448	457	466												
GAG Glu	GCC Ala	TGT Cys	TTA Leu	CCA Pro	TTG Leu	GAA Glu	TTA Leu	ACC Thr	AAG Lys	AAT Asn	GAG Glu	AGT Ser	TGC Cys	CTA Leu	AAT Asn	TCC Ser	AGA Arg
475	484	493	502	511	520												
GAG Glu	ACC Thr	TCT Ser	TTC Phe	ATA Ile	ACT Thr	AAT Asn	GGG Gly	AGT Ser	TGC Cys	CTG Leu	GCC Ala	TCC Ser	AGA Arg	AAG Lys	ACC Thr	TCT Ser	TTT Phe
529	538	547	556	565	574												
ATG MET	ATG MET	GCC Ala	CTG Leu	TGC Cys	CTT Leu	AGT Ser	AGT Ser	ATT Ile	TAT Tyr	GAA Glu	GAC Asp	TTG Leu	AAG Lys	ATG MET	TAC Tyr	CAG Gln	GTG Val
583	592	601	610	619	628												
GAG Glu	TTC Phe	AAG Lys	ACC Thr	ATG MET	AAT Asn	GCA Ala	AAG Lys	CTT Leu	CTG Leu	ATG MET	GAT Asp	CCT Pro	AAG Lys	AGG Arg	CAG Gln	ATC Ile	TTT Phe
637	646	655	664	673	682												
CTA Leu	GAT Asp	CAA Gln	AAC Asn	ATG MET	CTG Leu	GCA Ala	GTT Val	ATT Ile	GAT Asp	GAG Glu	CTG Leu	ATG MET	CAG Gln	GCC Ala	CTG Leu	AAT Asn	TTC Phe
691	700	709	718	727	736												
AAC Asn	AGT Ser	GAG Glu	ACT Thr	GTG Val	CCA Pro	CAA Gln	AAA Lys	TCC Ser	TCC Ser	CTT Leu	GAA Glu	GAA Glu	CCG Pro	GAT Asp	TTT Phe	TAT Tyr	AAA Lys
745	754	763	772	781	790												
ACT Thr	AAA Lys	ATC Ile	AAG Lys	CTC Leu	TGC Cys	ATA Ile	CTT Leu	CTT Leu	CAT His	GCT Ala	TTC Phe	AGA Arg	ATT Ile	CGG Arg	GCA Ala	GTG Val	ACT Thr

FIG. 26b

799				808				817			826
<u>ATT</u>	<u>GAC</u>	<u>AGA</u>	<u>GTG</u>	<u>ACG</u>	<u>AGC</u>	<u>TAT</u>	<u>CTG</u>	<u>AAT</u>	<u>GCT</u>	<u>TCC</u>	>
Ile	Asp	Arg	Val	Thr	Ser	Tyr	Leu	Asn	Ala	Ser	

836		846		856
TAAAAAGCGA GGTCCCTCCA AACCGTTGTC				

FIG. 26c

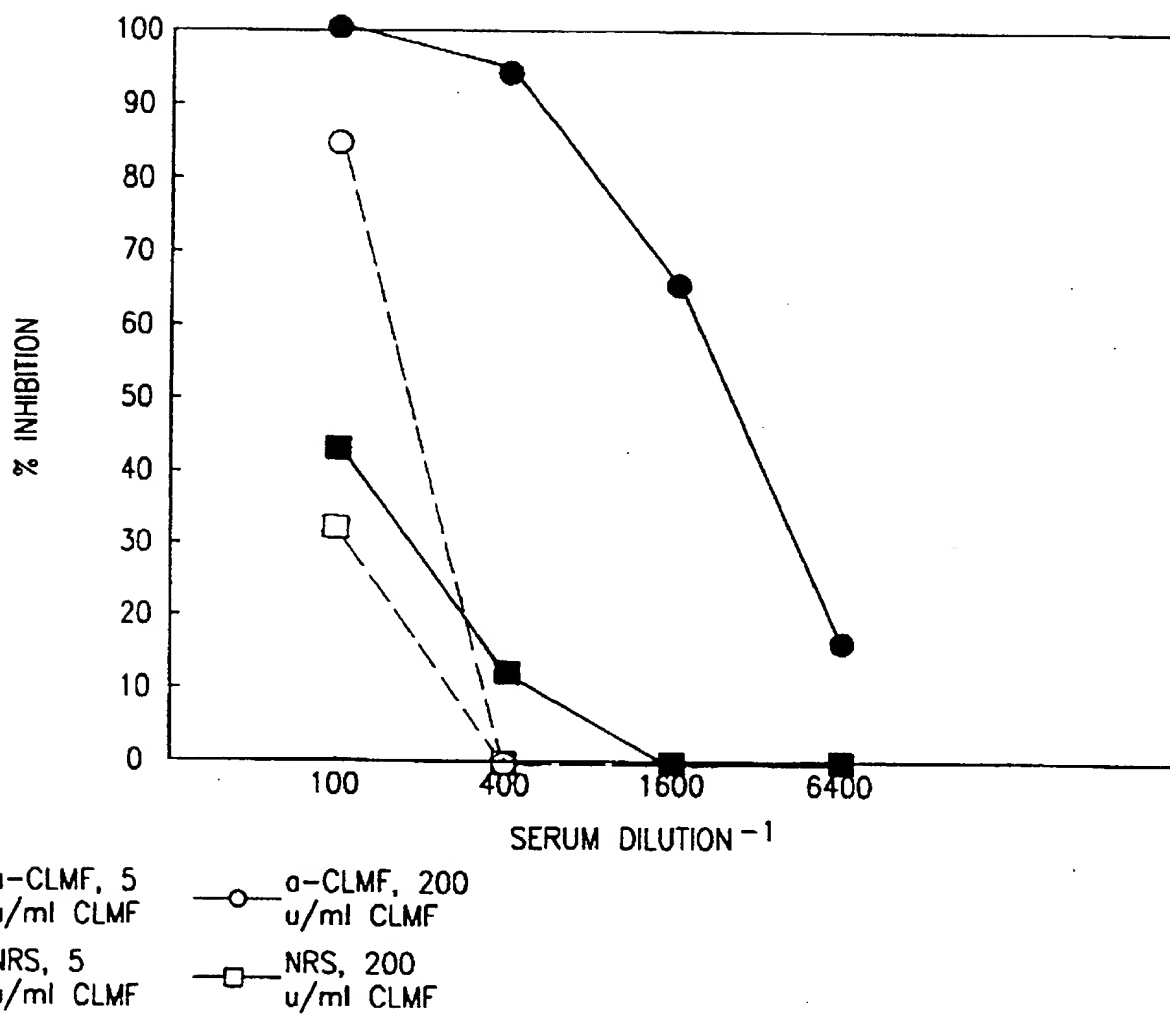


FIG. 27



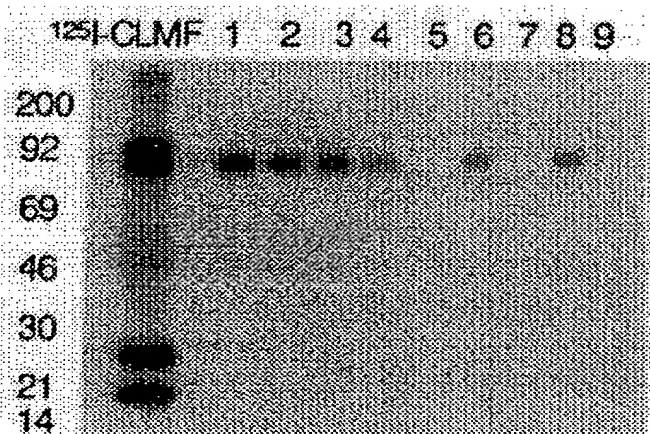


FIG. 28

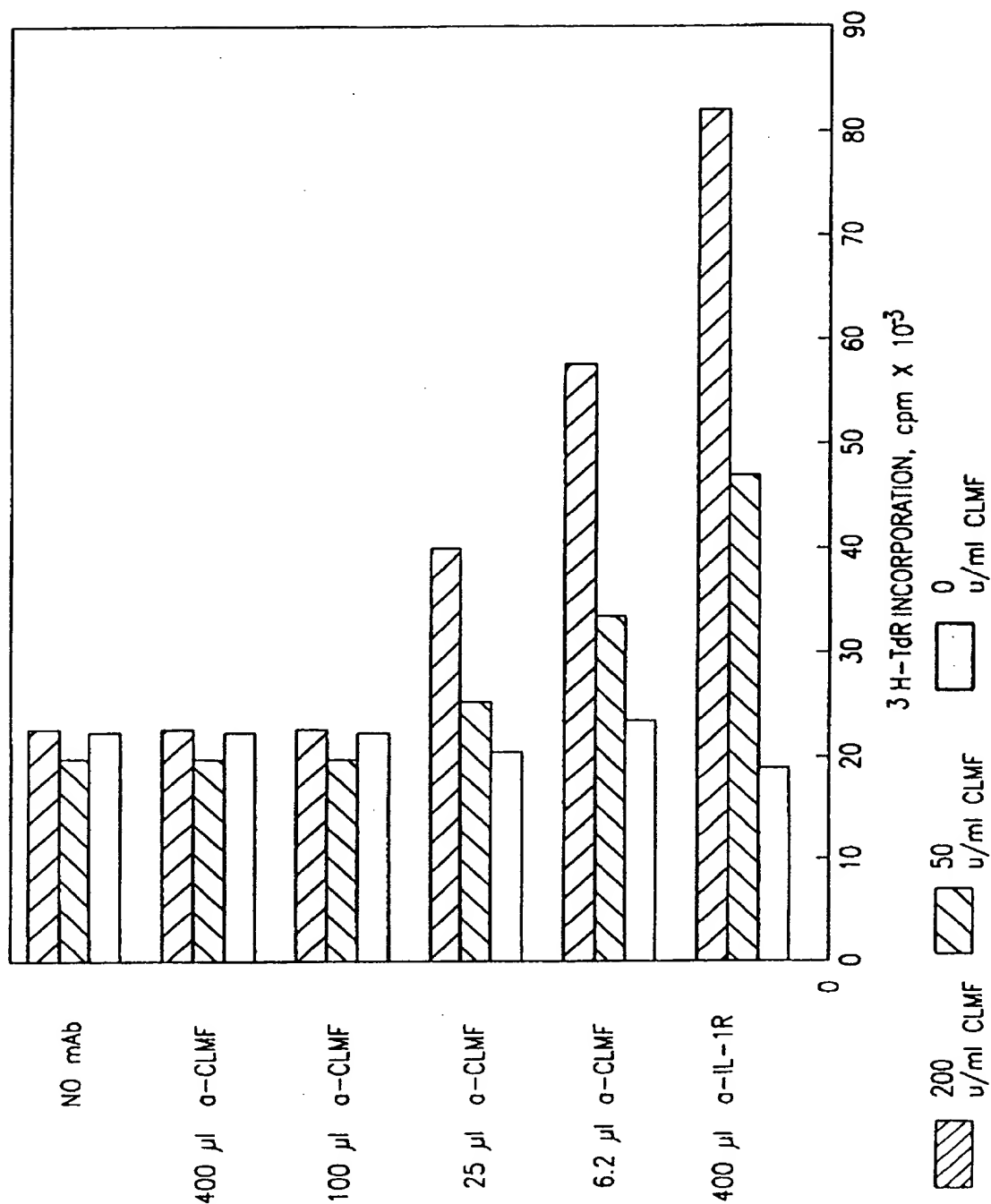


FIG. 29

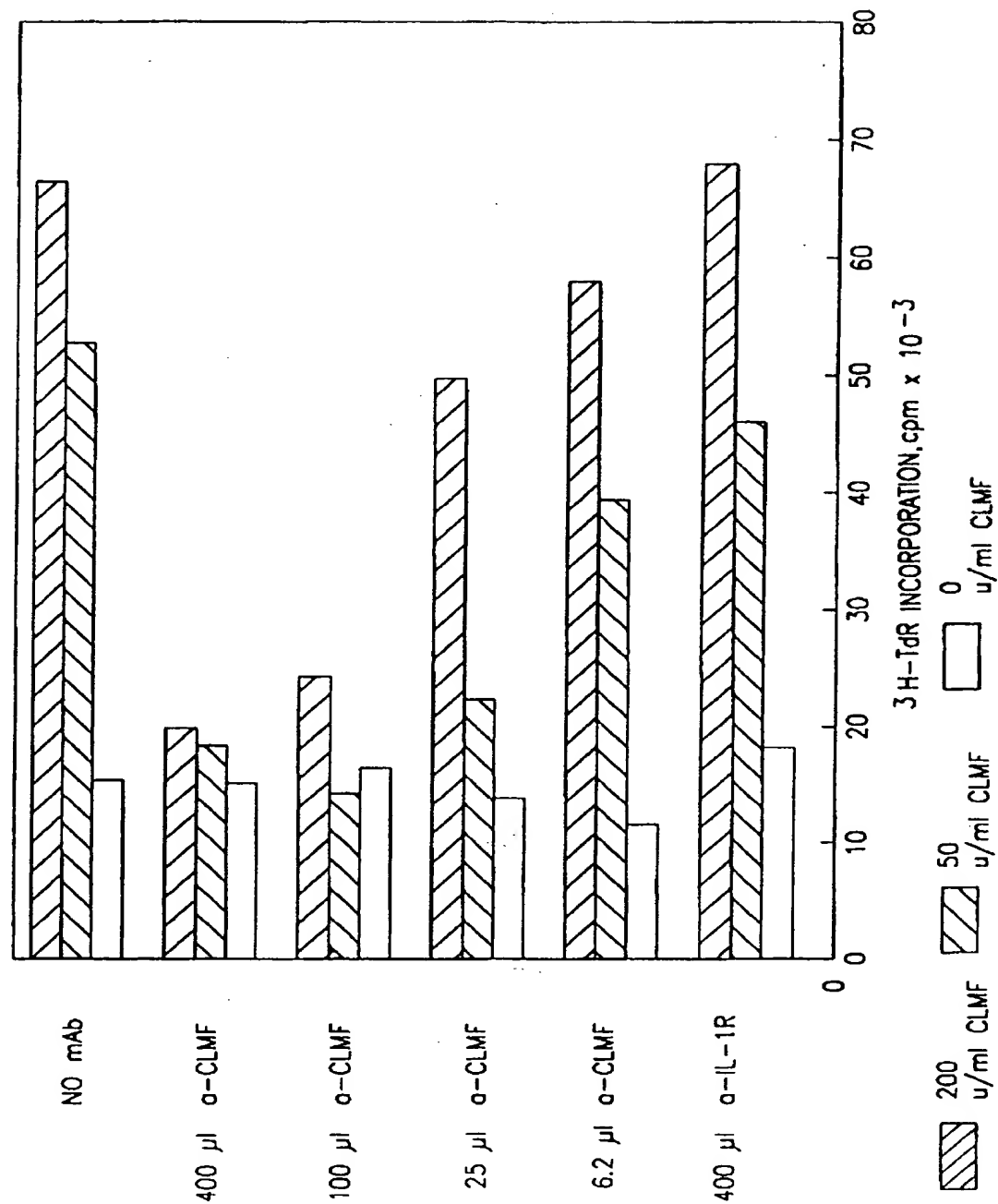


FIG. 30

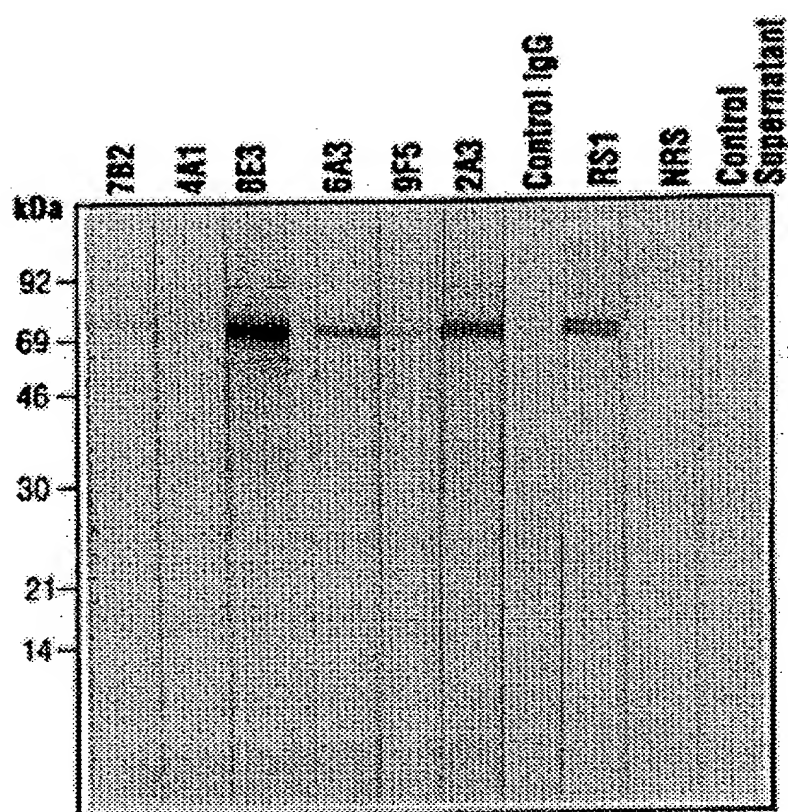
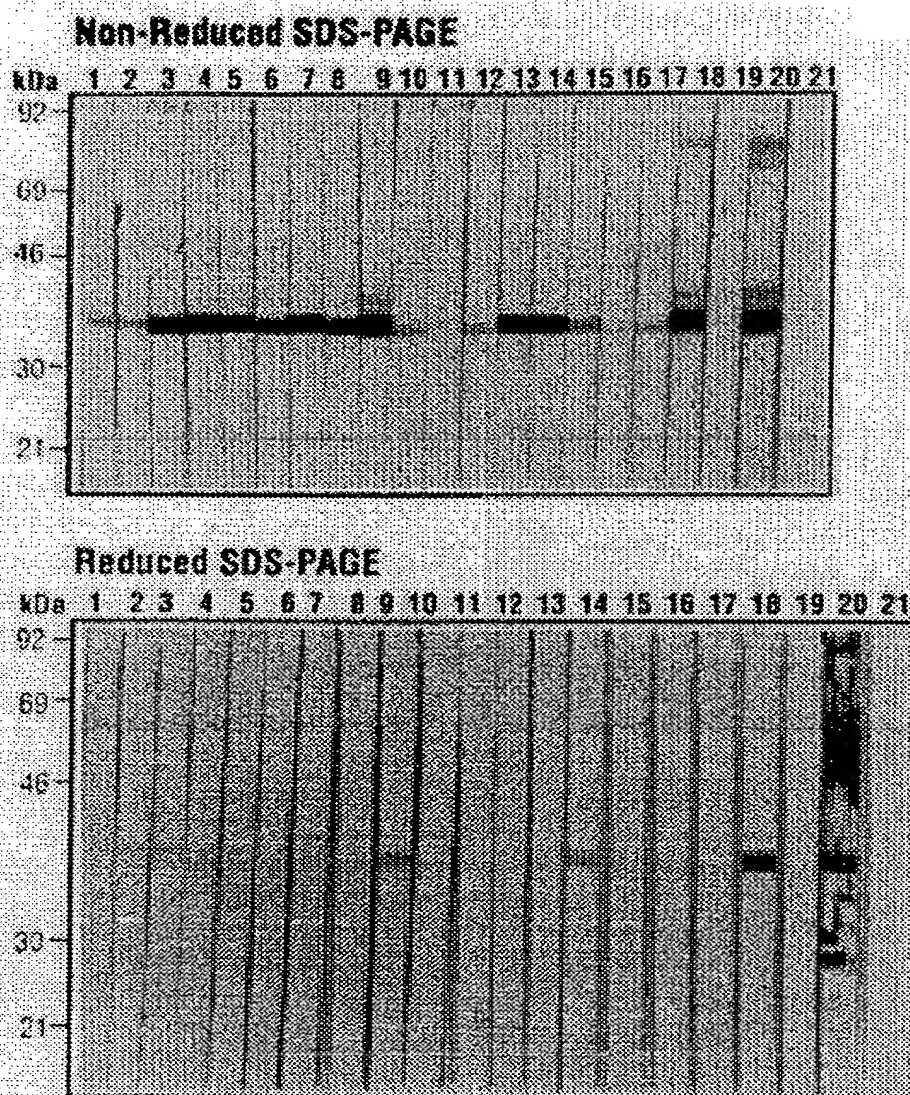


FIG. 31

**FIG. 32**

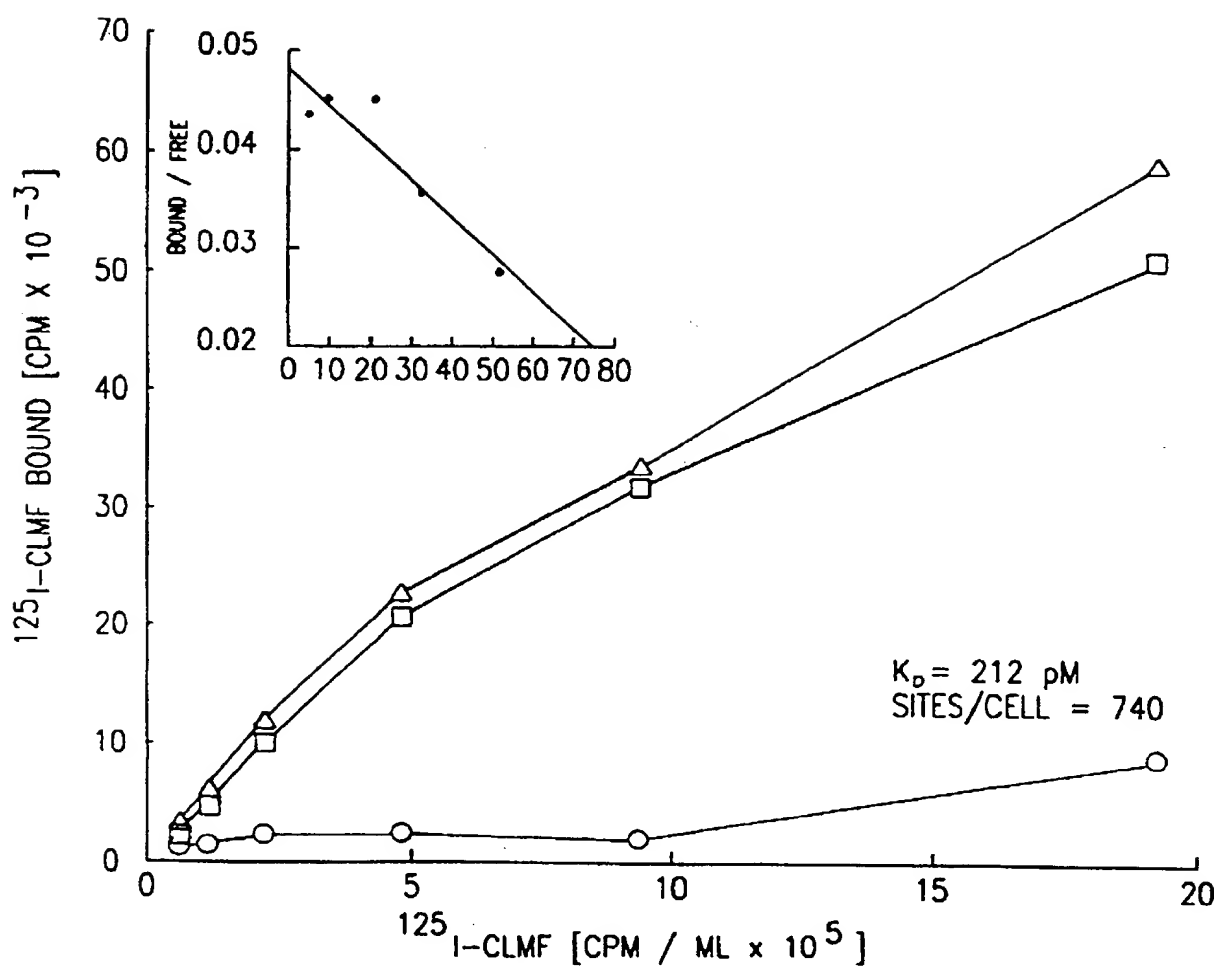


FIG. 33

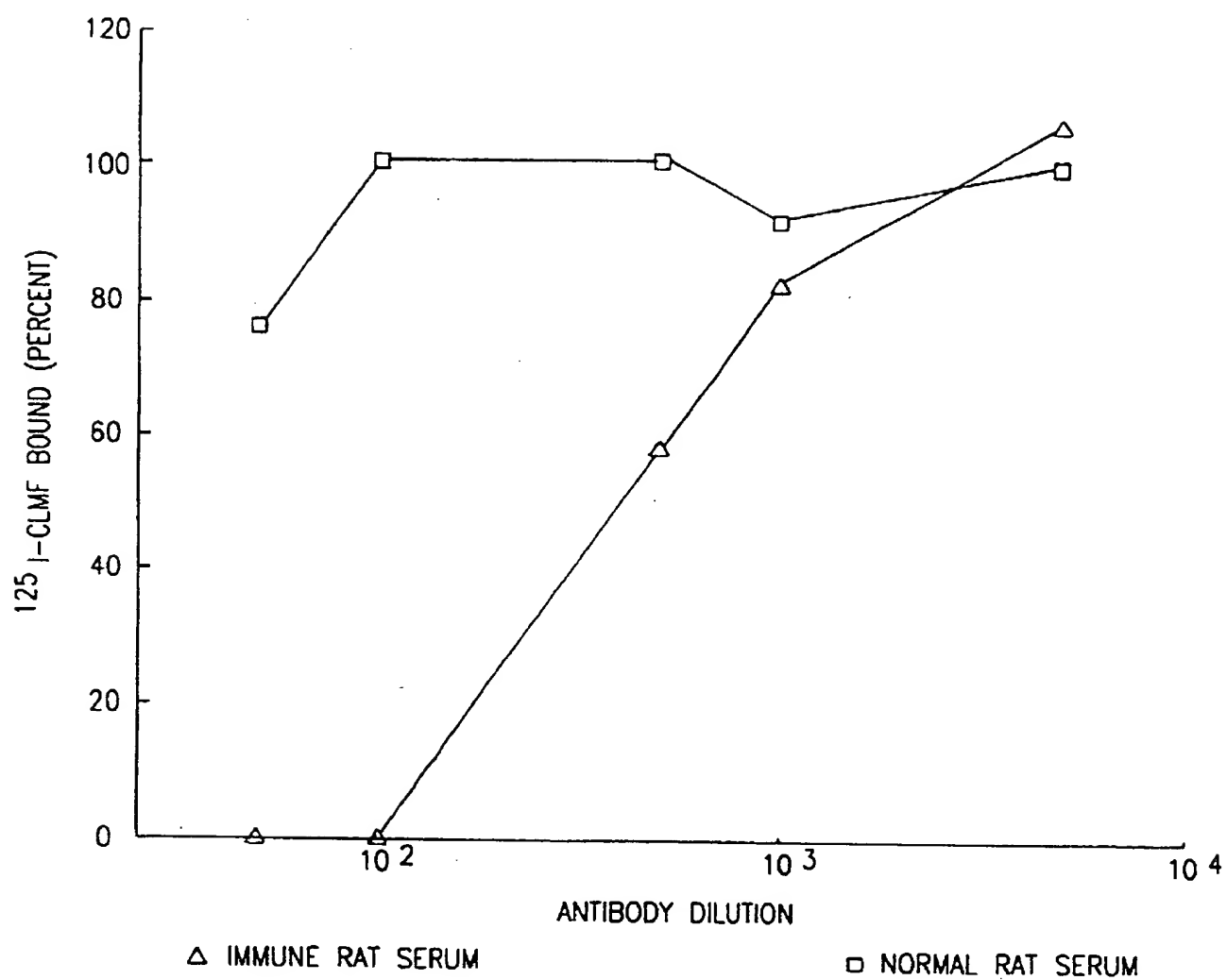


FIG. 34

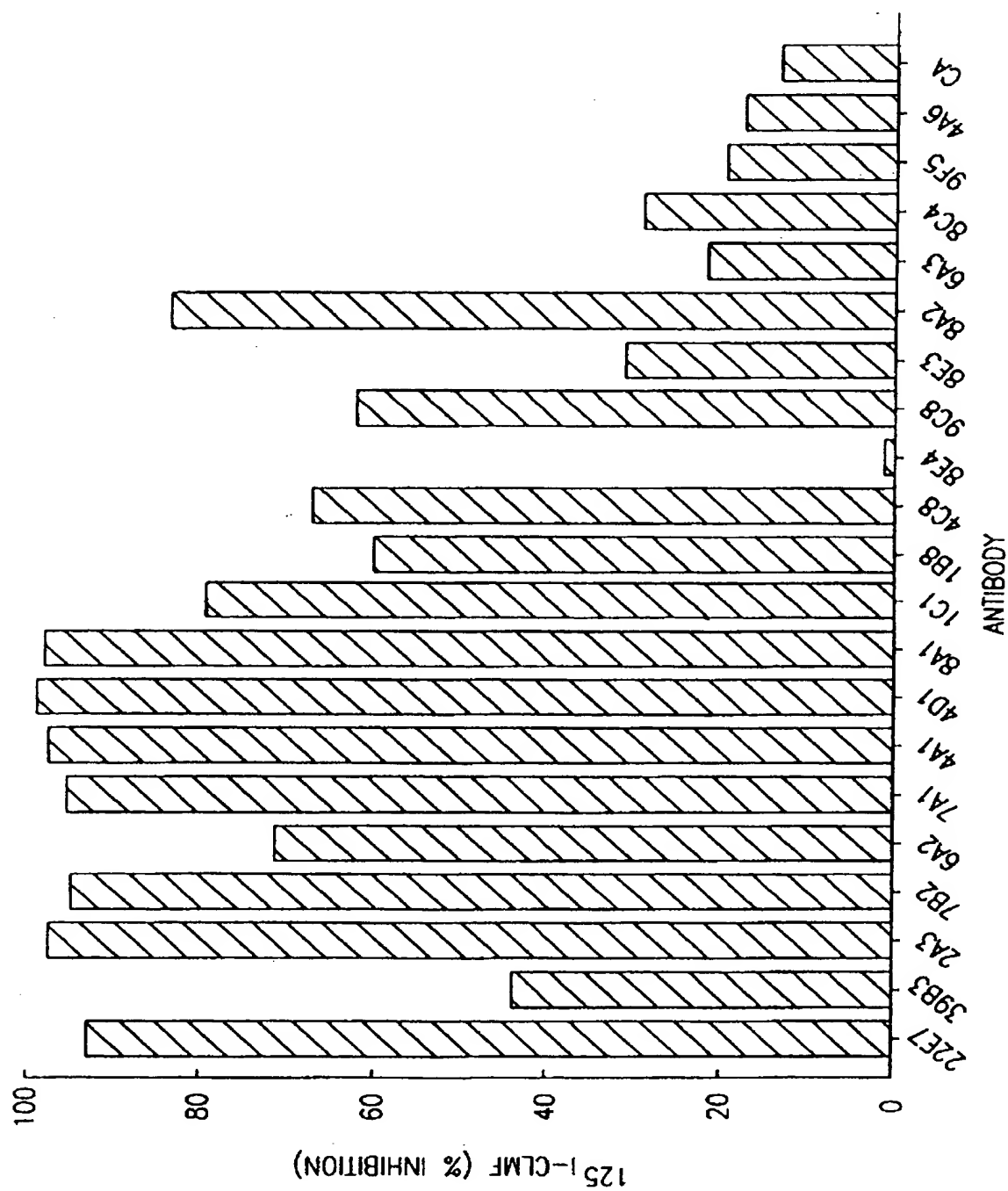


FIG. 35



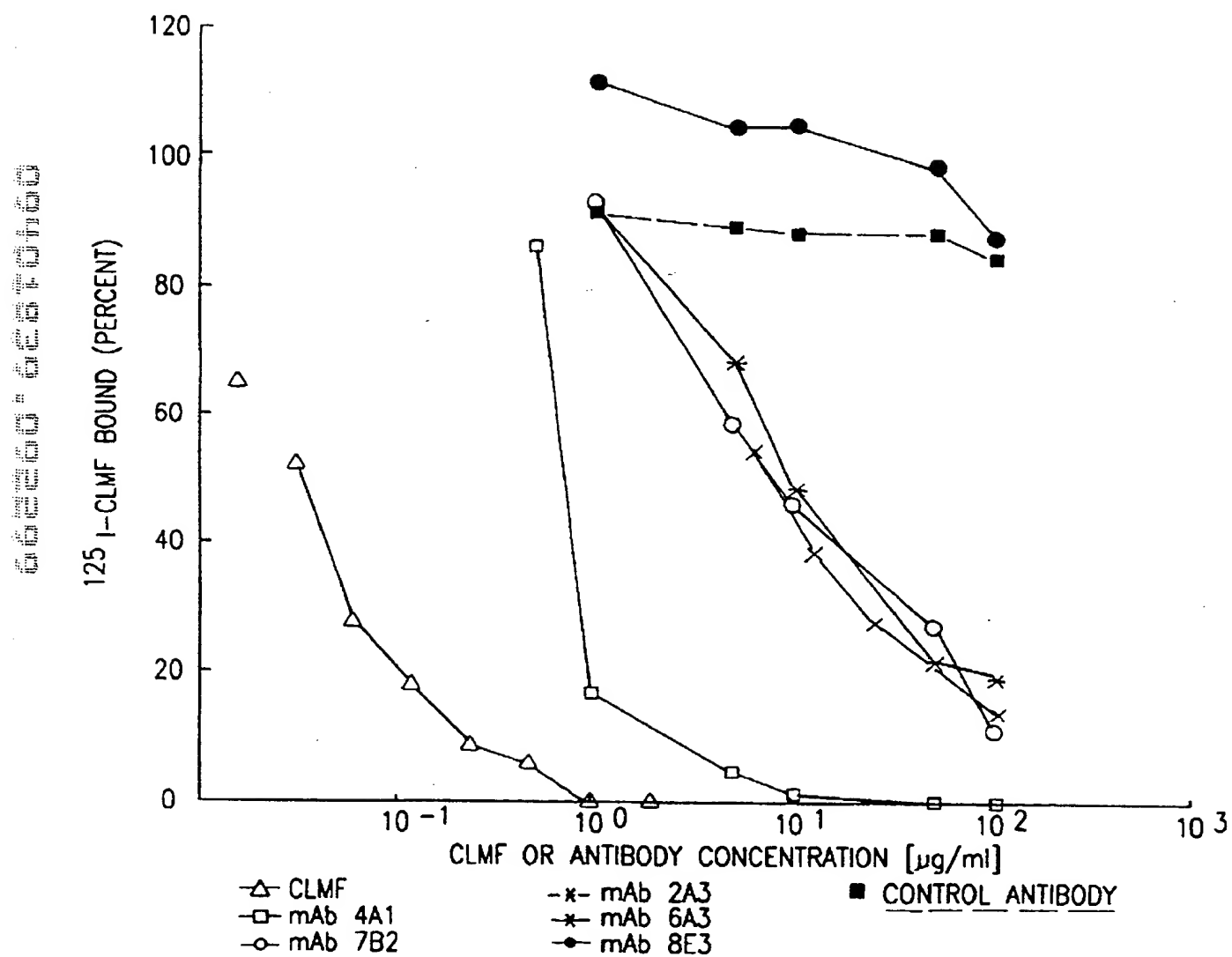


FIG. 36

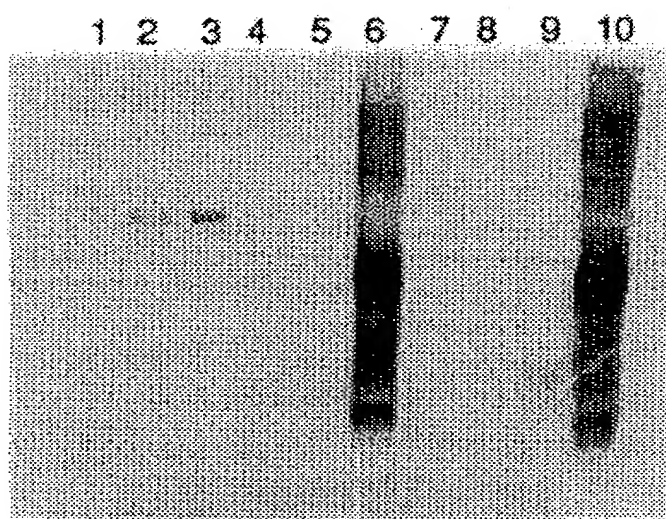
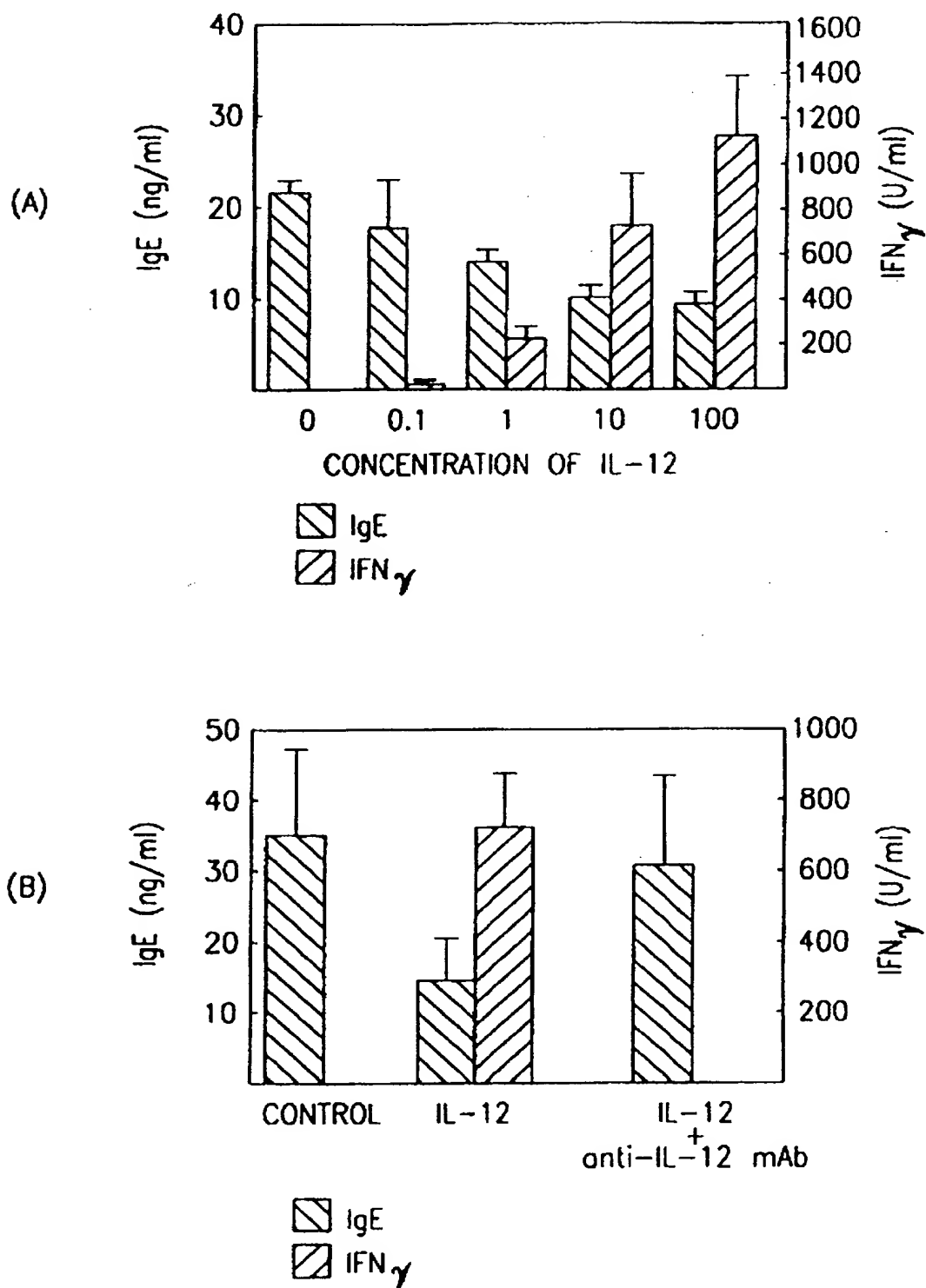


FIG. 37

**FIG. 38**

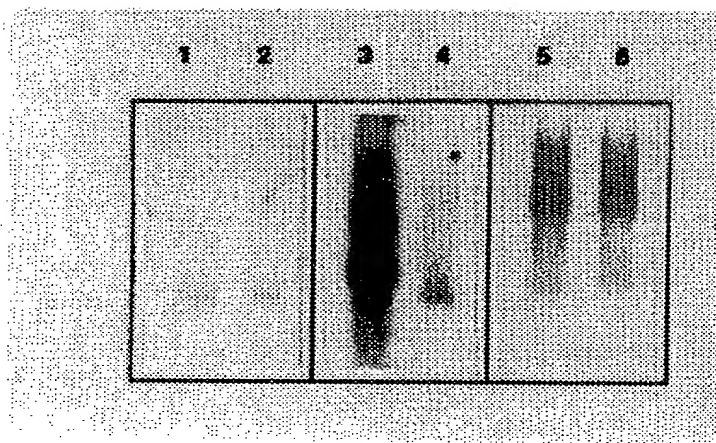


FIG. 39